# JVC

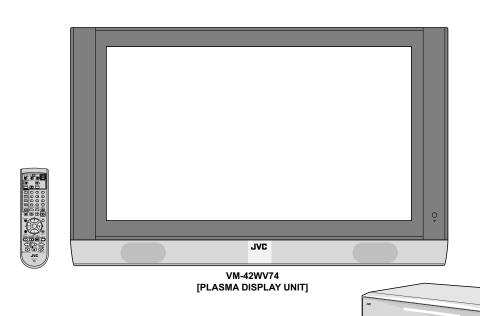
# **SERVICE MANUAL**

## PDP COLOR TELEVISION

# **PD-42WV74/SA**

**BASIC CHASSIS** 

SB3





TU-42WV74 [RECEIVER UNIT]

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#### **SPECIFICATION**

Items		Contents		
Dimensions (W $\times$ H $\times$ D)	Plasma display unit	$\frac{116.0\text{cm}\times79.8\text{cm}\times30.8\text{cm}}{116.0\text{cm}\times73.1\text{cm}\times9.8\text{cm}}\frac{(45-11/16\times31-7/16\times12-3/16")}{28-13/16\times3-7/8"}\text{ [with the stand]}$		
	Receiver unit	43.5cm × 9.9cm × 38.2cm (17-3/16 × 3-15/16 × 15-1/16")		
l		48kg (106lbs) [with the stand] 38kg (84lbs) [main TV body]		
	Receiver unit	5.1kg (11.3lbs)		
TV RF System		CCIR(M)		
Color System		NTSC		
Sound System		BTSC (Multi Channel Sound)		
TV Receiving Channels and	\/UE L o.w	02ch~06ch : 54MHz~88MHz		
Frequency		07ch~13ch : 174MHz~216MHz		
rrequericy	· ·	14ch~69ch: 470MHz~806MHz		
		54MHz~804MHz		
	<b>5</b>	Low Band : 02~06, A-8 by 02~06&01		
		High Band: 07~13 by 07~13		
		Mid Band : A~I by 14~22		
		Super Band : J~W by 23~36		
		Hyper Band : W+1~W+28 by 37~64		
		Ultra Band : W+29~W+84 by 65~125		
		Sub Mid Band : A8, A4~A1 by 01, 96~99		
TV / CATV Total Channel		180 Channels		
Intermediate Frequency		45.75 MHz		
	Sound IF	41.25 MHz (4.5MHz)		
Color Sub Carrier		3.58 MHz		
Power Input		AC 120V, 60Hz		
Power Consumption	Plasma display unit	365W		
·	Receiver unit	29W		
Plasma Display panel (PDP)		42-inch wide aspect (16:9)		
Screen Size		Diagonal: 107.5cm (H:51.8cm × V: 105.7cm)		
Display Pixels		Horizontal: 1024 dots × Vertica I: 768 dots (XGA)		
Audio Power Output		18W×18W		
Speaker	DD speaker	$9.5$ cm $\times$ 1cm ( $3-3/4 \times 7/16$ "), oval type $\times$ 2		
op sanoi		2cm (13/16"), round type $\times$ 2		
		$13\text{cm} \times 6.5\text{cm}$ (5-1/8 × 2-9/16"), oval type × 2		
Antenna terminal (VHF/UHF)		F-type connector, $75\Omega$ unbalanced, coaxial		
Video / Audio input	S-Video	Mini-DIN 4 pin × 3		
Input-1/		Y: 1V (p-p), Positive (Negative sync provided), 75 $\Omega$		
Input-2/		C: 0.286V (p-p) (Burst signal), 75 Ω		
Input-3 (DVD)/	Video	1V (p-p), Positive (Negative sync provided), 75 $\Omega$ RCA pin jack $\times$ 4		
Input-4	Audio	500mV (rms), High Impedance RCA pin jack $\times$ 8		
	Component Video	RCA pin jack × 6		
	1125i / 750p	Y : 1V (p-p) (Sync signal: 0.35V(p-p), 3-value sync.), 75 $\Omega$		
		Pb/Pr : 0.35V(p-p), 75 Ω		
	525p / 525i	Y: 1V (p-p), Positive (Negative sync provided), 75 $\Omega$		
		Pb/Pr : 0.35V(p-p), 75 Ω		
Digital-in		DVI-D Single Link 19 pin × 1		
Audio output Variable		500mV (rms), Low impedance, RCA pin jack × 2		
		More than 0 to 1000mV(rms) (+2.2 dBs)		
	Fix	500mV(rms) (-4dBs) Low impedance (400Hz when modulated 100%)		
Sub woofer output		0~1000m(Vrms), Low impedance, RCA pin jack × 1		
Headphone		3.5mm stereo mini jack × 1		
AV compulink III		3.5mm mini jack × 1		

Design & specifications are subject to change without notice.

# SECTION 1 PRECAUTION

#### 1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by ( △ ) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

#### (4) Use isolation transformer when hot chassis.

The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.

- (5) Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.

  Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (⊥) side GND, the ISOLATED (NEUTRAL): (⅓) side GND and EARTH: (⅓) side GND.

  Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (6) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).
- (7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a  $10k\Omega$  2W resistor to the anode button.
- (8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

#### (9) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

#### a) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(.... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

#### b) Leakage Current Check

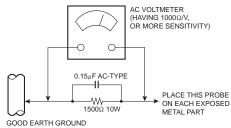
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

#### **Alternate Check Method**

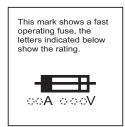
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having  $1000\Omega$  per volt or more sensitivity in the following manner. Connect a  $1500\Omega$  10W resistor paralleled by a  $0.15\mu F$  AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

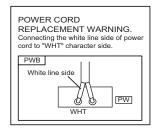
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



#### (10) High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly. See item "How to check the high voltage hold down circuit".





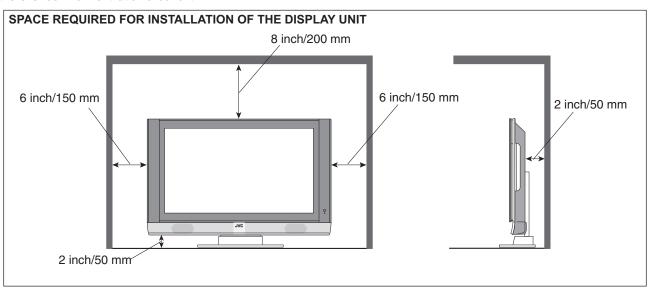
#### 1.2 INSTALLATION

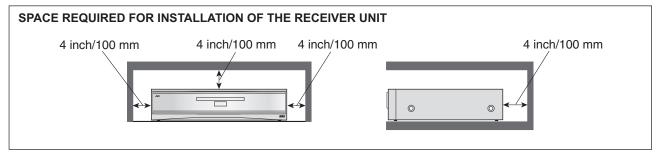
#### 1.2.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically. Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.

#### 1.2.2 INSTALLATION REQUIREMENTS

Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc.Install the unit on stable flooring or stands.Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.





#### 1.3 HANDLING FOR PLASMA DISPLAY PANEL

#### 1.3.1 PRECAUTIONS DURING NOTES FOR TRANSPORTATION

When transporting the display unit, pressure exerted on the internal PDP (Plasma Display Panel) due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention prior to delivery such as through explaining the handling instructions to transporters. Ensure that the following requirements are met during transportation, as the PDP of this unit is made of glass and therefore fragile:

- (1) Avoid vibrations and impacts
  - The unit may be broken if it is toppled sideways even when properly packed. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.
- (2) Do not place equipment horizontallyEnsure that it is placed upright and not horizontally during transportation and storage as the PDP is very vulnerable to lateral impacts and may break easily under such circumstances.During transportation, ensure that the unit is loaded along the traveling direction of travel of the vehicle, and avoid stacking them on one another.For storage, ensure that they are stacked in 2 layers or less even when placed upright.

#### 1.3.2 RESIDUAL IMAGE / BURN-IN ON SCREEN

Like CRTs, 'burn-ins' may occur when a same image is continuously displayed over an extended period of time. As Tthis may also shorten the life span of the PDP. Therefore, turn off the display when not in use, scroll the screen, make use of screensavers, or allow even distribution on the display by inverting the brightness, switching to complementary colors or inserting animated images at periodic intervals. As burn-in is more likely to occur with high brightness and contrast settings, try to use neutral gradations or medium tone colors. Burn-in does not occur in the case of animated images. When switching to another image after continuous display of the previous image, residual images may become prominent, as luminance in a part of the display is higher than the other parts. This is not a defect but is because due to the discharge surface of the lighted portion has becomebeing relatively activated and its luminance higher than the unlighted parts.

#### 1.3.3 INFRARED RAYS

Near Near-infrared rays (800nm to 1000nm) are emitted from the front of the panel, and this may give rise to glitchescause malfunctions in infrared remote controls or communication systems placed near it. In this case, avoid direct infrared rays (and reflected rays in some cases) from the screen by either changing the direction of the unit or other infrared systems or securing a longer keeping a distance from the screen.

#### 1.3.4 OPTICAL FILTER (PANEL FILTER)

Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and color. Clean the filter surface by wiping it softly lightly with outing flannels a soft and lightly fuzz cloth (such as flannel). Do not use solvents such as benzine or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off. As The filter surface is fragile., Ddo not scratch or hit it with hard materials.

### 1.3.5 NOTES PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (back REAR COVER, FRONT PANEL, optical filter):Do not exert pressure on the front of the PDP (glass surface).Pay careful attention not to scratch or stain the front of the PDP (surface) with hands.When replacing exterior parts, the front of the PDP should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front surface.However, never use materials that are too soft (such as blanket cloth). If replacement is made with the PDP surface facing downward and in contact with the blanket, pressure may be exerted on the PDP, thus causing damages to it.

# SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

#### 2.1 FEATURES

#### 2.1.1 HIGH-DEFINITION IMAGE TECHNOLOGY (DIST)

Picture processing technology that changes various kinds of image signal, ranging from ground-based broadcast to D4 format of the digital satellite broadcast, to XGA high vision picture quality, thereby accomplishing detailed high density images.

#### 2.1.2 MAIN FUNCTION

#### **AUTO POWER OFF**

The power supply of the TV will be cut off automatically when there is a continuous absence of signal for 4 minutes, or when there is a maximum of 3 consecutive hours of no operation from user.

#### **OFF TIMER**

Setting for situations such as falling asleep while watching TV, and for prevention against forgetting to turn off the TV. The power supply of the TV will be cut off automatically when the time exceeds the set up timing (maximum 2 hours).

#### **NATURAL CINEMA**

When viewing film-originated movie and animation, misty outline can be seen in fast moving images. Using natural cinema will enable viewing of clear images even in fast moving images.

#### 2.1.3 ASPECT CONTROL

#### **SCREEN SIZE SWITCHING**

Desired screen size (PANORAMA / CINEMA / FULL / HD PANORAMA / REGULAR / CINEMA ZOOM) can be selected.

#### **MOVING THE SCREEN UP & DOWN**

Adjusts the vertical position of the screen.

#### 2.1.4 MULTI-SCREEN FUNCTION

#### **SPLIT-SCREEN**

2 programs an be viewed at the same time.

#### **INDEX-SCREEN**

This allows you to quickly look at to 12channels at a time so that you can decide which one to watch.

#### **FREEZE SCREEN**

The images that are currently seen can be viewed on the memo screen (still picture).

It is convenient for taking down notes like application address and recipe of cooking program etc, while enjoying the current program.

#### 2.2 TECHNICAL INFORMATION

#### 2.2.1 PDP STRUCTURE AND CHARACTERISTIC

This unit (Display Unit) uses the flat type panel PDP (Plasma Display Panel), instead of the conventional CRT (Cathode Ray Tube), as a display unit.

#### 2.2.2 PIXEL (CELL) ARRAY

PDP is constructed by sealing the xenon, which emits neon and ultraviolet rays for discharging purpose, in between the electrodes lay on the front glass substrate and rear glass substrate. One pixel is composed of 3 RGB cells, with cell pitch of 0.304mm (1 pixel 0.897mm) horizontally and 0.693mm vertically. The cell is arrayed in each RGB color as shown in Fig. 1. One pixel is formed by interlacing each RGB color cell. One cell size is 0.304mm horizontally and 0.693mm vertically.

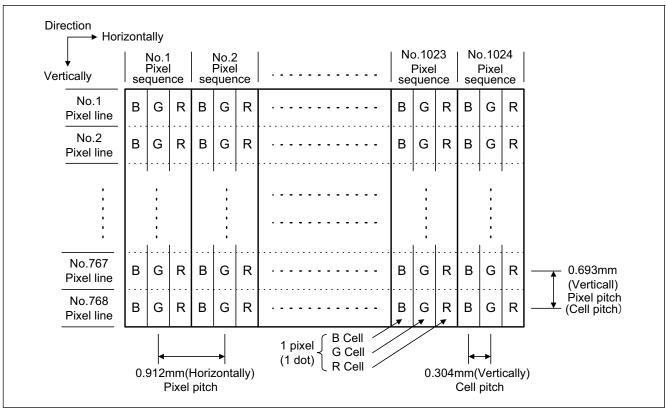


Fig.1 Alignment of pixel (cell)

#### 2.2.3 PIXEL FAULT

There are three pixel faults - bright fault, dark fault and flicker fault - that are respectively defined as follows.

#### (1) BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.

For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

#### (2) DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting. For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

#### (3) FLICKER FAULT

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.

For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.

#### 2.3 MAIN MI-COM FUNCTIONAL TABLE [RECEIVER UNIT]

Pin No.	Terminal name	Port name	I/O	Function	
1	BS-RxD	SBO0	0	PDP communication	
2	/MICON_V	/VSYNC	I	Vertical sync for OSD	
3	LB_PRO	P84	I	Low B protection detect [Detection : H]	
4	NC	NC	-	Not used	
5	/RST	/RST	I	Reset for CPU [Reset : L]	
6	CONV.BUSY	P52 IRQ4	I	Not used	
7	/TEST	/TEST	I	3.3V	
8	OSD_YS	YS	0	OSD Ys	
9	/DPCRST	P83	0	Not used	
10	BS/D	P50	0	Not used	
11	A_MU	P82	0	Audio muting [Muting: H]	
12	/MICON_H	/HSYNC	I	Horizontal sync for OSD	
13	M_MU	P81	0	Not used	
14	P46.OSDXI	P46 OSDXI	-	Not used	
15	P45.OSDXO	P45 OSDXO	-	Not used	
16	SDA2	P44	I/O	Not used	
17	AC_IN	TM5IOB	I	AC power supply (60Hz)	
18	SCL2	P42	0	Not used	
19	TU_POW	P41	0	Tuner power control [ON : L]	
20	VCOI	VCOI	I	LPF input	
21	PDO	PDO	0	LPF output	
22	/IP_RESET	P80	0	Reset (L) [Reset : L]	
23	OSD_YM	DAYMOUT	0	OSD YM	
24	OSD_B	DABOUT	0	OSD B	
25	POW_LED	P77	0	Lighting for power [Lighting : H]	
26	OSD_G	DAGOUT	0	OSD G	
27	OSD_R	DAROUT	0	OSD R	
28	VREF	VREF	I	Not used	
29	IP_ERR	P76	I	AMDP program load	
30	IREF	IREF	I	Not used	
31	COMP	COMP	I	Not used	
32	AVDD	AVDD	I	3.3V	
33	CLL	CLL	0	Not used	
34	VREFLS	VREFLS	I	Standard voltage (For SUB CCD)	
35	SUB_CCD	CVBS1	I	Not used	
36	NC	NC	-	Not used	
37	VSS	VSS	I	GND	
38	MAIN_CCD	CVBS0	I	Not used	
39	VREFHS	VREFHS	I	Standard voltage (For MAIN CCD)	
40	CLH	CLH	I	Not used	
41	VDD/VPP	VDD(VPP)	I	3.3V	
42	CLKSW1	P75	0	IP clock switch [ON:L]	
43	CLKSW2	P74	0	IP clock switch [ON:L]	
44	ON_TIM	P27	0	Not used	
45	PDP-Rx	SBO1	0	PDP communication	

Pin No.	Terminal name	Port name	I/O	Function
46	PDP-Tx	P25 SBD1	I	PDP communication
47	SBT1	SBT1	I	Port for writing on board
48	NC	P23	I	Not used
49	NC	P22	0	Not used
50	SRQ	P21	0	Not used
51	BS1.5CTL	P20	0	Not used
52	/DVI_RST	PWM2	0	Not used
53	DVI_HP	PWM1	0	DVI Connection detect [Connect : H]
54	/MDR_CON	PWM0	0	Panel connection detect [Connect : L]
55	/BS_POW	P73	0	Not used
56	BS_CLK_SEL	P14	0	Not used
57	TU2_AID	ADIN8	I	Not used
58	/LOB_POW	P72	0	LOW B power control
59	/COMPULINK	/IRQ3	I	Not used
60	/POWERGOOD	/IRQ2	I	Power condition check [ON : L]
61	MECHA_SW	P10²/IRQ1	I	Discontinuation of mechanical swtich detection [Pussing : L]
62	/MAIN_POW	P71	0	Main power control [ON : L]
63	NC	NC	-	Not used
64	/B1_POW	P70	0	Not used
65	C/N	ADIN4	I	Not used
66	X_RAY	ADIN3	I	Not used
67	EE_CDS	ADIN2	I	Not used
68	KEY2	ADIN1	I	Key scan data [ON : H]
69	KEY1	ADIN0	I	Key scan data [ON : H]
70	SCL1	SCL1	0	I <sup>2</sup> C bus clock (For Main memory)
71	SDA1	SDA1	I/O	I <sup>2</sup> C bus data (For Main memory)
72	REMO	RMIN²/IRQ0	I	Remote control data
73	NC	P87	0	Not used
74	VSS	VSS	I	GND
75	OSC2	OSC2	0	4MHz oscillation for system clock
76	OSC1	OSC1	I	4MHz oscillation for system clock
77	VDD	VDD	I	3.3V
78	SCL0	SCL0	0	I <sup>2</sup> C bus clock (for general)
79	NC	P86	0	Not used
80	SDA0	SDA0	I/O	I <sup>2</sup> C bus data (for general)
81	DVI_SDA	P57SBT0	0	I <sup>2</sup> C bus data (for digital input)
82	NC	P56SBD0	I	Not used
83	NC	NC	-	Not used
84	P_MU	P85	0	Picture muting [Muting : H]

# SECTION 3 DISASSEMBLY

#### 3.1 DISASSEMBLY PROCEDURE (DISPLLAY UNIT)

- Prior to assembly/disassembly procedure of the set, be sure to disconnect the power cord from the wall outlet.
- Perform the following procedures on a flat and strong place.

#### 3.1.1 REMOVING THE REAR COVER (Fig.1)

- (1) Remove the 9 screws [A].
- (2) Remove the 12 screws [B].
- (3) Take out the REAR COVER.

#### 3.1.2 REMOVING THE SIDE SPEAKER COVER (Fig.1)

- (1) Remove the 4 screws [ C ].
- (2) Take out the SIDE SPEAKER COVER.
- (3) Remove the other hand SIDE SPEAKER COVER same steps.

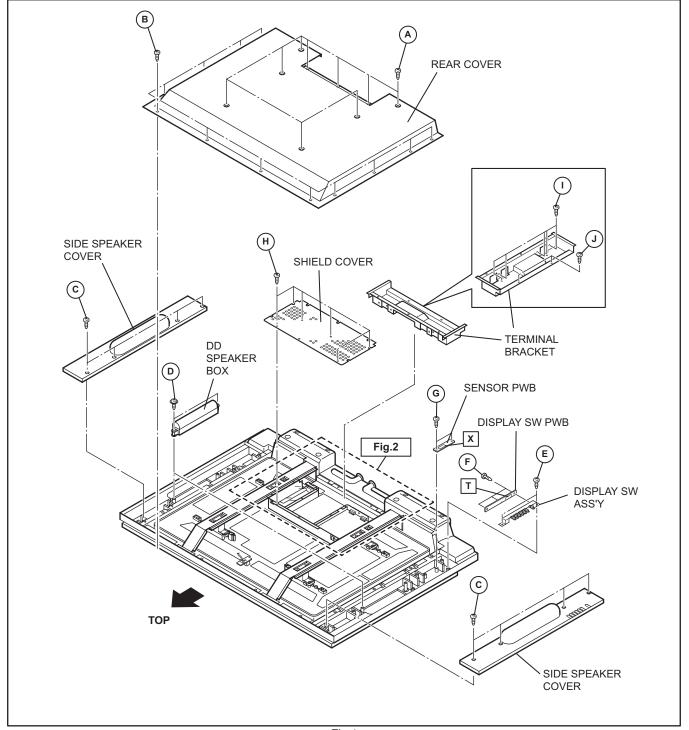


Fig.1

#### 3.1.3 REMOVING THE DD SPEAKER BOX (Fig.1, Fig.2)

- Remove the SIDE SPEAKER COVER.
  - (1) Remove the 2 screws [D].
  - (2) Take out the DD SPEAKER BOX.
  - (3) Remove the other hand DD SPEAKER BOX same steps.
  - (4) If necessary, remove the [SR] and [SL] connector.

#### 3.1.4 REMOVING THE DISPLAY SW ASS'Y (Fig.1)

- Remove the SIDE SPEAKER COVER.
  - (1) Remove the 2 screws [E].
  - (2) Take out the DISPLAY SW ASS'Y.

#### 3.1.5 REMOVING THE DISPLAY SW PWB (Fig.1)

- · Remove the SIDE SPEAKER COVER.
- Remove the DISPLAY SW ASS'Y.
  - (1) Remove the 3 screws [F].
  - (2) Take out the DISPLAY SW PWB.
  - (3) Remove the [ I ] connector on the DISPLAY SW PWB.

#### 3.1.6 REMOVING THE SENSOR PWB (Fig.1)

- · Remove the SIDE SPEAKER COVER.
  - (1) Remove the 2 screws [G].
  - (2) Take out the SENSOR PWB.
  - (3) Remove the [X] connector on the SENSOR PWB.

#### 3.1.7 REMOVING THE SHIELD COVER (Fig.1)

- · Remove the REAR COVER.
  - (1) Remove the 6 screws [H].
  - (2) Take out the SHIELD COVER.

#### 3.1.8 REMOVING THE TERMINAL BRACKET (Fig.1)

- · Remove the REAR COVER.
- · Remove the SHIELD COVER.
- (1) Remove the 5 screws [1].
- (2) Remove the 2 screws [ J ].
- (3) Take out the TERMINAL BRACKET.

#### 3.1.9 REMOVING THE LINE FILTER PWB (Fig.2)

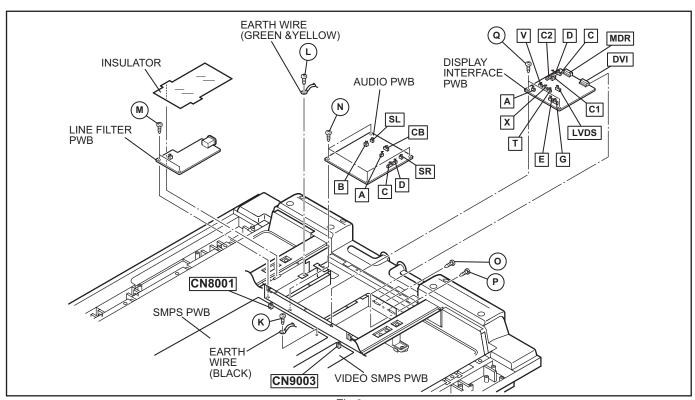
- Remove the REAR COVER.
- · Remove the SHIELD COVER.
- Remove the TERMINAL BRACKET.
  - (1) Remove the [ CN8001 ] ( AC IN ) connector on the SMPS PWR
  - (2) Remove the screw [ K ] attaching the earth wire ( black ) on the PDP UNIT.
  - (3) Remove the screw [L] attaching the earth wire ( green and yellow ).
  - (4) Remove the 2 screws [M].
  - (5) Take out the LINE FILTER PWB.

#### 3.1.10 REMOVING THE AUDIO PWB (Fig.2)

- · Remove the REAR COVER.
- Remove the SHIELD COVER.
- Remove the TERMINAL BRACKET.
  - (1) Remove the [ SR ], [ SL ], [ CB ] connector on the AUDIO PWB
  - (2) Remove the [ A ], [ C ], [ D ] connector on the DISPLAY INTERFACE PWB.
  - (3) Remove the [ <u>CN9003</u> ] ( B ) connector on the VIDEO SMPS PWB.
  - (4) Remove the 4 screws [N].
  - (5) Take out the AUDIO PWB.

#### 3.1.11 REMOVING THE DISPLAY INTERFACE PWB (Fig.2)

- · Remove the REAR COVER.
- · Remove the SHIELD COVER.
- Remove the TERMINAL BRACKET.
  - (1) Remove the  $[\ \underline{A}\ ]$ ,  $[\ \underline{C}\ ]$ ,  $[\ \underline{D}\ ]$ ,  $[\ \underline{E}\ ]$ ,  $[\ \underline{I}\ ]$ ,  $[\ \underline{X}\ ]$ ,  $[\ \underline{V}\ ]$ ,  $[\ \underline{G}\ ]$ ,  $[\ \underline{LVDS}\ ]$  connector on the DISPLAY INTERFACE PWB.
  - (2) Remove the 2 screws [O] attaching the MDR connector.
  - (3) Remove the 2 screws [P] attaching the DVI connector.
  - (4) Remove the 2 screws [Q].
  - (5) Take out the DISPLAY INTERFACE PWB.



#### 3.1.12 REMOVING THE CHASSIS BASE (Fig.3)

- · Remove the REAR COVER.
- · Remove the SHIELD COVER.
- · Remove the TERMINAL BRACKET.
- · Remove the LINE FILTER PWB.
- · Remove the AUDIO PWB.
- Remove the DISPLAY INTERFACE PWB.
  - (1) Remove the 2 screws [R].
  - (2) Remove the screw [S] attaching the earth wire.
  - (3) If necessary, remove the cable and wires from wire clamp.
  - (4) Pull up the CHASSIS BASE.

#### 3.1.13 REMOVING THE BACK FRAME BRACKET (Fig.3)

- Remove the REAR COVER.
- Remove the SHIELD COVER.
- Remove the TERMINAL BRACKET.
- · Remove the LINE FILTER PWB.
- · Remove the AUDIO PWB.
- Remove the DISPLAY INTERFACE PWB.
- Remove the CHASSIS BASE.
  - (1) Remove the 4 screws [T].
  - (2) Remove the 4 screws [U].
  - (3) If necessary, remove the cable and wires from wire clamp.
  - (4) Pull up the BACK FRAME BRACKET.
  - (5) The other hand BACK FRAME BRACKET is removed same steps.

#### 3.1.14 REMOVING THE TEMP. SENSOR PWB (Fig.3)

- Remove the REAR COVER.
  - (1) Remove the [ $\underline{V}$ ] connector on the TEMP. SENSOR PWB.
  - (2) Remove the screw [ V ].
  - (3) Take out the TEMP. SENSOR PWB.

#### 3.1.15 REMOVING THE PDP UNIT (Fig.3)

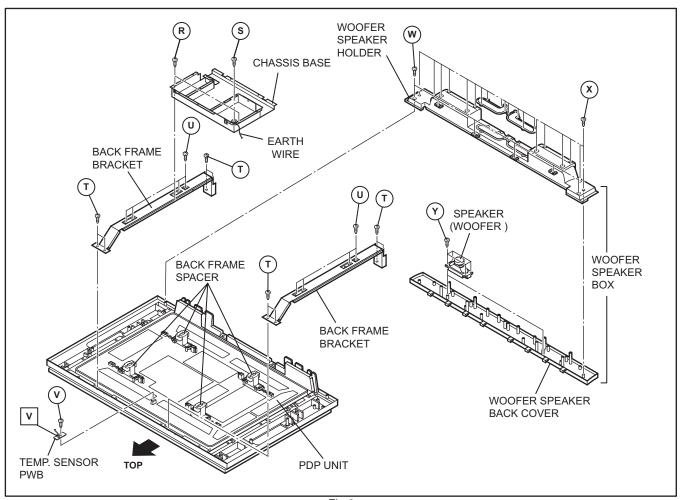
- · Remove the REAR COVER.
- · Remove the SHIELD COVER.
- Remove the TERMINAL BRACKET.
- Remove the LINE FILTER PWB.
- · Remove the AUDIO PWB.
- Remove the DISPLAY INTERFACE PWB.
- Remove the CHASSIS BASE.
- · Remove the BACK FRAME BRACKET.
- · Remove the TEMP. SENSOR PWB.
  - (1) Rise with the back frame spacer on the PDP UNIT back side
  - (2) Take out the PDP UNIT.

#### 3.1.16 REMOVING THE WOOFER SPEAKER BOX (Fig.3)

- (1) Remove the 6 screws [W].
- (2) Take out the WOOFER SPEAKER BOX.

#### 3.1.17 REMOVING THE SPEAKER (WOOFER) (Fig.3)

- Remove the WOOFER SPEAKER BOX.
  - (1) Remove the 20 screws [ X ].
  - (2) Pull up the WOOFER SPEAKER HOLDER.
  - (3) Remove the 4 screws [Y].
  - (4) Take out the WOOFER.
  - (5) Remove the other hand WOOFER same steps.



#### 3.1.18 THE SIDE BLACKET (Fig.4)

- Remove the REAR COVER.
- · Remove the SHIELD COVER.
- Remove the TERMINAL BRACKET.
- · Remove the LINE FILTER PWB.
- · Remove the AUDIO PWB.
- · Remove the DISPLAY INTERFACE PWB.
- Remove the CHASSIS BASE.
- Remove the BACK FRAME BRACKET.
- · Remove the PDP UNIT.
  - (1) Remove the 2 screws [Z].
  - (2) Remove the screw [a].
  - (3) Remove the screw [b] attaching the earth wire.
  - (4) Pull up the SIDE BRACKET.
  - (5) Remove the other hand SIDE BRACKET same steps.

#### 3.1.19 REMOVE THE FRONT FILTER (Fig.4)

- Remove the REAR COVER.
- Remove the SHIELD COVER.
- Remove the TERMINAL BRACKET.
- Remove the LINE FILTER PWB.
- · Remove the AUDIO PWB.
- Remove the DISPLAY INTERFACE PWB.
- Remove the CHASSIS BASE.
- Remove the BACK FRAME BRACKET.
- Remove the PDP UNIT.
  - (1) Remove the 2 screws [ c ] attaching the UPPER BRACKET.
  - (2) Remove the 6 screws [ d ] attaching the GLASS HOLDER (UPPER) from upper side.
  - (3) Pull up the UPPER BRACKET.
  - (4) Remove the 2 screws [ e ] attaching the UPPER BRACKET.
  - (5) Remove the 6 screws [f] attaching the GLASS HOLDER (UPPER) from under side.
  - (6) Take out the FRONT FILTER.

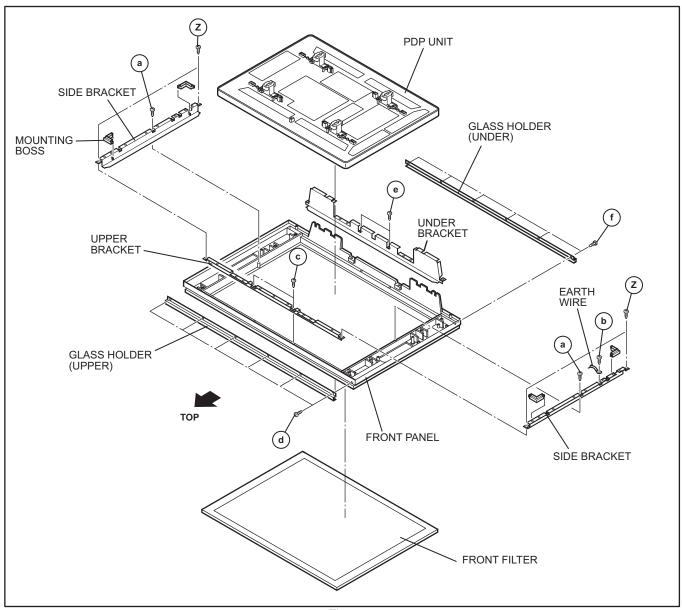


Fig.4

#### 3.1.20 DISASSEMBLY PDP UNIT UNIT (Fig.5)

#### 3.1.20.1 REMOVING THE SMPS PWB

- Remove the REAR COVER.
  - (1) Remove the <u>CN8007/CN8008/CN8004/CN8005/CN8006/CN8003/CN8009/CN8002</u> connectors on the SMPS PWB.
  - (2) Remove the 8 screws [g].
  - (3) Remove the SMPS PWB.

#### 3.1.20.2 REMOVING THE X-MAIN PWB

- · Removing the REAR COVER.
  - (1) Remove the <u>CN4001/CN4002/CN4003/CN4004/CN4005</u> connectors on the X-MAIN PWB.
  - (2) Remove the 8 screws [h].
  - (3) Remove the X-MAIN PWB.

#### 3.1.20.3 REMOVING THE Y-BUF-U PWB

- · Remove the REAR COVER.
  - (1) Remove the <u>CN5401/CN5402/CN5403/CN5404/CN5405/</u> CN5407 connectors on the Y-BUF-U PWB.
  - (2) Remove the 5 screws [i].
  - (3) Lift the Y-BUF-U PWB slightly, and remove the <u>CN5404/CN5405</u> connectors on the Y-BUF-U PWB.
  - (4) Remove the Y-BUF-U PWB.

#### 3.1.20.4 REMOVING THE Y-BUF-L PWB

- Remove the REAR COVER.
  - (1) Remove the <u>CN5501/CN5502/CN5503/CN5504/CN5505/CN5507</u> connectors on the Y-BUF-L PWB.
  - (2) Remove the 5 screws [i].
  - (3) Lift the Y-BUF-L PWB slightly, and remove the <u>CN5504/CN5505</u> connectors on the Y-BUF-L PWB.
  - (4) Remove the Y-BUF-L PWB.

#### 3.1.20.5 REMOVING THE Y-MAIN PWB

- Remove the REAR COVER.
- Remove the CHASSIS BASE.
- · Remove the Y-BUF-U PWB.
- Remove the Y-BUF-L PWB.
  - Remove the <u>CN5001/CN5008</u> connectors on the Y-MAIN PWB.
  - (2) Remove the 7 screws [ k l.
  - (3) Remove the Y-MAIN PWB.

#### 3.1.20.6 REMOVING THE LOGIC-MAIN PWB

- · Remove the REAR COVER.
- · Remove the CHASSIS BASE.
  - (1) Remove the <u>CN2001/CN2002/CN2003/CN2004/CN2005/CN2006/CN2007/LA01</u> connectors on the LOGIC-MAIN PWB.
  - (2) Remove the 6 screws [1].
  - (3) Remove the LOGIC-MAIN PWB.

#### 3.1.20.7 REMOVING THE LOGIC-BUF-L (E) PWB

- Remove the REAR COVER.
- Remove the BACK FRAME.
- · Remove the CHASSIS BASE.
- · Remove the SPEAKER BRACKET (left).
  - (1) Remove the <u>EC1/EC2/EC3/EC4/CN401/CN806/EF1</u> connectors on the E-BUF PWB.
  - (2) Remove the 5 screws [ m ].
  - (3) Remove the E-BUF PWB.

#### 3.1.20.8 REMOVING THE LOGIC-BUF-L (F) PWB

- · Remove the REAR COVER.
- Remove the BACK FRAME.
- · Remove the CHASSIS BASE.
  - (1) Remove the FC5/FC6/FC7/FC8/CN402/FE1 connectors on the F-BUF PWB.
  - (2) Remove thr 6 screws [ n ].
  - (3) Remove the F-BUF PWB.

#### 3.1.20.9 REMOVING THE LOGIC-BUF-U (F) PWB

- · Remove the REAR COVER.
  - (1) Remove the <u>EC1/EC2/EC3/EC4/EF1/CN401</u> connectors on the F-BUF-U PWB.
  - (2) Remove the 6 screws [o].
  - (3) Remove the F-BUF-U PWB.

#### 3.1.20.10 REMOVING THE LOGIC-BUF-U (E) PWB

- · Remove the REAR COVER.
  - (1) Remove the <u>FC5/FC6/FC7/FC8/FE1/CN402/CN807</u> connectors on the E-BUF-U PWB.
  - (2) Remove the 5 screws [p].
  - (3) Remove the E-BUF-U PWB.

#### 3.1.20.11 REMOVING THE VIDEO SMPS PWB

- Remove the REAR COVER.
  - (1) Remove the <a href="Mailto:CN9001/CN9002/CN9004/CN9005/CN9006/CN9007">CN9007</a> connectors on the VIDEO SMPS PWB.
  - (2) Remove the 4 screws [q].
  - (3) Remove the VIDEO SMPS PWB.

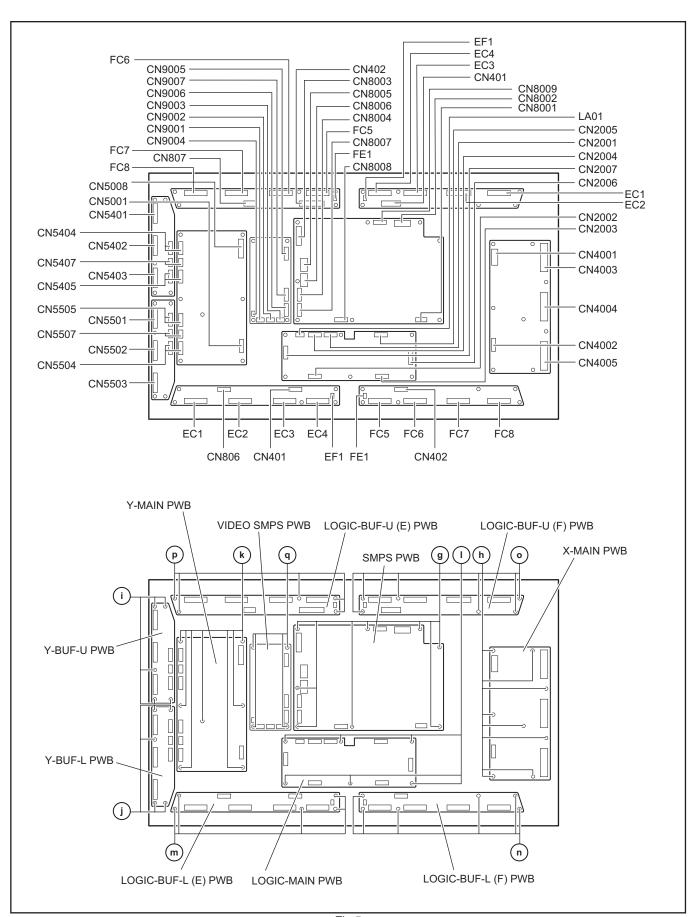


Fig.5

#### 3.2 DISASSEMBLY PROCEDURE (RECEIVER UNIT) (Fig. 6)

 Make sure that the power cord is pulled out from the AC wall socket.

#### 3.2.1 REMOVING THE TOP COVER

- (1) Remove the 4 screws [ A ] from both side of the TOP COVER.
- (2) Remove the 3 screws [ B ] from rear side of the TOP COVER.
- (3) Pull up the TOP COVER.

#### 3.2.2 REMOVING THE BACK COVER

- Remove the TOP COVER.
  - (1) Remove the 2 screws [C] attaching the AC connector.
  - (2) Remove the 3 screws [D].
  - (3) Remove the 6 screws [E] attaching the each jacks.
  - (4) Remove the 2 screws [F] attaching the digital connector.
  - (5) Remove the 2 screws [ G ] attaching the DIGITAL INPUT MODULE.
  - (6) Remove the 2 screws [H] attaching the DVI terminal.
  - (7) Remove the nat [ I ] attaching the antenna terminal.
  - (8) Take out the rear cover.

#### 3.2.3 REMOVING THE CHASSIS BRACKET

- Remove the TOP COVER.
  - (1) Remove the 2 screws [ J ].
  - (2) Pull up the CHASSIS BRACKET.

#### 3.2.4 REMOVING THE DIGITAL INPUT MODULE

- Remove the TOP COVER.
- Remove the BACK COVER.
  - (1) Remove the connector [  $\underline{AU}$  ], [  $\underline{SR}$  ], [  $\underline{DC}$  ], [  $\underline{Q}$  ] on the DIGITAL INPUT MODULE.
  - (2) Remove the 2 screws [ K ].
  - (3) Take out the DIGITAL INPUT MODULE.

## 3.2.5 REMOVING THE MI-COM & DIST MODULE PWB AND DIST RELAY PWB

- · Remove the TOP COVER.
- · Remove the BACK COVER.
- Remove the DIGITAL INPUT MODULE.
  - Remove the [<u>CN100A</u>] connector on the MI-COM & DIST MODULE PWB.
  - (2) Remove the 2 screws [ L ].
  - (3) Remove the 2 screws [ M ].
  - (4) Remove the 2 screws [N].
  - (5) Pull up the DIST RELAY PWB from MAIN PWB.
  - (6) Remove the 5 screws [O] attaching the MI-COM & DIST MODULE PWB.
  - (7) Take out the MI-COM & DIST MODULE PWB and DIST RELAY PWB from the DIST HOLDER.

#### 3.2.6 REMOVING THE RECEIVER POWER PWB

- Remove the TOP COVER.
- · Remove the BACK COVER.
- · Remove the DIGITAL INPUT MODULE.
- Remove the MI-COM & DIST MODULE PWB and DIST RELAY PWB.
  - Remove the [<u>CN1001</u>] and [<u>CN1002</u>] connector on the MAIN PWB.
  - (2) Remove the [ <u>CN90PW</u> ] [ <u>CN900X</u> ] and [ <u>CN90E1</u> ] connector on the RECEIVER POWER PWB.
  - (3) Remove the earth wire [ CN90E2 ] from chassis.
  - (4) Remove the 6 screws [P].
  - (5) Take out the RECEIVER POWER PWB.

#### 3.2.7 REMOVING THE FRONT PANEL

- Remove the TOP COVER.
  - (1) Remove the screw [Q] from front side.
  - (2) Remove the screw [R] from top side.
  - (3) Remove the 2 claws [Y] from left and right side.
  - (4) Pull out the FRONT PANEL.

#### 3.2.8 REMOVING THE DAMPER

- · Remove the TOP COVER.
- · Remove the FRONT PANEL.
  - (1) Remove the screw [S] from back side of the FRONT PANEL.
  - (2) Remove the DAMPER.

#### 3.2.9 REMOVING THE FRONT CONTROL PWB

- · Remove the TOP COVER.
- Remove the FRONT PANEL.
  - (1) Remove the card wire from the [ H ] and [ G ] connector.
  - (2) Remove the 4 screws [T].
  - (3) Take out the FRONT CONTROL PWB.

#### 3.2.10 REMOVING THE RECEIVER PWB

- Remove the TOP COVER.
- Remove the BACK COVER.
- Remove the CHASSIS BRACKET.
- Remove the DIGITAL INPUT MODULE.
- Remove the MI-COM & DIST MODULE PWB and DIST RELAY PWB.
  - (1) Remove the [ CN1005 ] and [ CN1006 ] connector.
  - (2) Pull up the RECEIVER PWB.

#### 3.2.11 REMOVING THE MAIN PWB

- Remove the TOP COVER.
- Remove the BACK COVER.
- · Remove the CHASSIS BRACKET.
- Remove the DIGITAL INPUT MODULE.
- Remove the MI-COM & DIST MODULE PWB and DIST RELAY PWB.
- Remove the FRONT PANEL.
- · Remove the RECEIVER PWB.
  - (1) Remove the 3 screws [U] attaching the bracket.
  - (2) Remove the 2 screws [V].
  - (3) Remove the 2 screws [ W ].
  - (4) Take out the MAIN PWB.

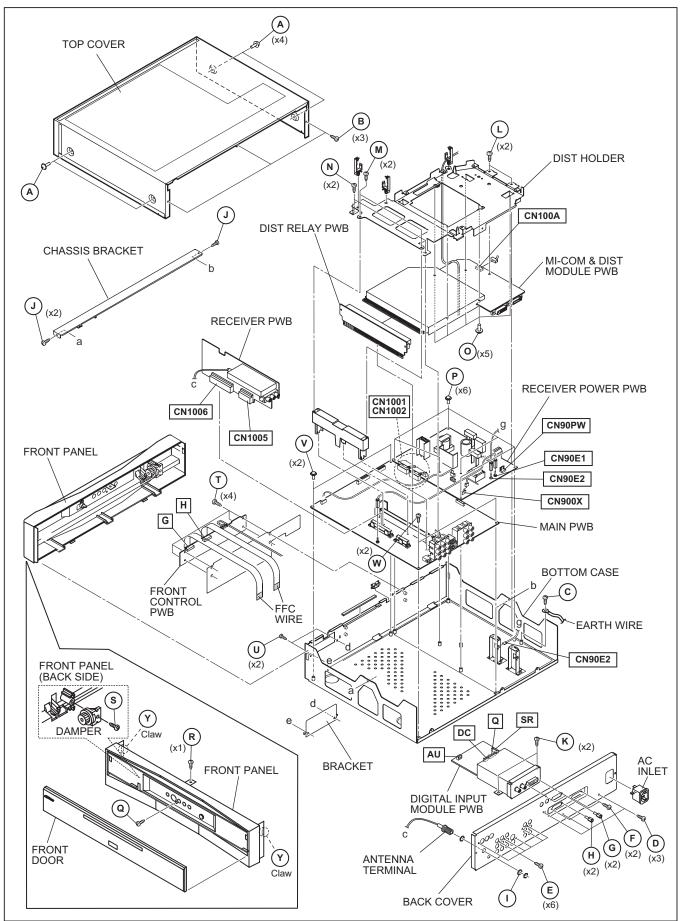


Fig.6

#### 3.3 REPLACEMENT OF MEMORY IC

This unit uses the nonvolatile memory IC. The memory IC memories data for video-chroma and drive circuits. To replace the memory IC without the data written, malfunctions might occurred while power is on, and the normal image might not appear. When replacing the memory IC, be sure to use the IC written with the initial values of data.

#### 3.3.1 PROCEDURE FOR REPLACING THE MEMORY IC

#### NOTE:

Before entering the SERVICE MENU, confirm that the setting of TV / CATV SW of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR / DVD SW is at the "VCR" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.

- (1) Switch the power off and unplug the power cord from the wall outlet.
- (2) Replacing the memory IC. [Be sure to use the IC written with the initial values of data]
- (3) Plug the power cord into the wall outlet and switch the power on.
- (4) Receive channel setting
- (5) User setting Memories the user setting items. The [SETTINGS OF FACTORY SHIPMENT] setting is as next page.
- (6) SERVICE MODE Check the SERVICE MODE setting items of setting mode in Table 1, set if necessary. For setting method, please refer to the [ADJUSTMENT PREPARATION : ADJUSTMENT PROCEDURE] of ADJUSTMENT section.

#### **MAIN MENU**

1.PICTURE/SOUND 7.PANEL
2.YC SEP 8.PP
3.WHITE BALANCE 9.IP
4.MEMORY SETUP 0.HDMI
5.RF AFC
6.DD/CM

#### SERVICE MODE SETTING ITEMS

SERVICE MODE SETTING ITEMS							
Setting items	Settings	Item No.					
1. PICTURE/SOUND (sound and picture setting)							
Sound circuits (A)	Fixed	A01~A27					
Video circuits (S)	Adjust	S01~S99					
Deflection circuits (D)	Fixed	D01~D32					
Factory setting items (F)	Adjust	F01~F59					
2. YC SEP							
3-dimensional YC separation	Adjust	YCM001~YCM185					
setting	Fixed	YCS001~YCS114					
3. WHITE BALANCE: Cannot a	djust						
4. MEMORY SETUP: Do not adj	ust						
Memory data edit	Fixed	-					
5. RF AFC: AFC setting (Automa	aticaly set)						
6. DD/CM							
Setting panel image processing	Adjust	DDT01~DDT34					
	Fixed	CMT01~CMT57					
	Fixed	DDP01~DDP37					
	Fixed	CMP01~CMP03					
7. PANEL: Do not adjust							
Panel power limit control	Fixed	PDA001~PDA012					
	Fixed	PDB001~PDA021					
	Fixed	RGA001~RGA003					
8. PP							
Multi-screen processing setting	Adjust	ADM001~ADM034					
	Fixed	PPA001~PPA008					
	Fixed	PPB001~PPB036					
	Fixed	PPC001~PPC008					
	Fixed	PPD001~PPD025					
9. IP							
DIST processing setting	Fixed	IPA001~IPA120					
	Fixed	IPB001~IPB079					
	Fixed	IPC001~IPC044					
	Fixed	IPD001~IPD026					
	Fixed	IPE001~IPE015					
0. HDMI							
Digital input process setting	Fixed	HDM001~HDM080					
	Fixed	RHD001~RHD170					
	•						

#### 3.3.2 SETTINGS OF FACTORY SHIPMENT

#### 3.3.2.1 MAIN SIDE OPERATION (RECEIVER UNIT)

Setting item	Setting value
INPUT	TV
CHANNEL	1
VOLUME	10
ASPECT	PANORAMA

#### 3.3.2.2 REMOTE CONTROL SIDE OPERATION

Setting item		Setting value
INPUT		TV
CHANNEL		CABLE-02
VOLUME		10
MUTING		OFF
DISPLAY		OFF
SOUND	AHS	OFF
	BBE	ON
	AHB	ON
ASPECT		PANORAMA
OFF TIMER		OFF
VIDEO STATUS		DINAMIC
NATURAL CINEMA		AUTO

#### 3.3.2.3 REMOTE CONTROL OPERATION MENU

#### (1) PICTURE ADJUSTMENT

Customers can adjust the picture setting of menu screen as their own like but the picture standard value during factory shipment is as below.

#### ■ NTSC MODE

	PICTURE	BRIGHT	COLOR	TINT	DETAIL	COLOR TEMPERATURE	DIG. NOISE CLEAR	COLOR MANAGEMENT
DINAMIC	+04	-03	+08	00	+06	HIGH	OFF	VIVID
STANDARD	00	00	00	00	00	LOW	OFF	VIVID
GAME	-05	00	-03	00	-03	HIGH	OFF	VIVID
THEATER	00	00	00	00	00	HIGH	OFF	VIVID

#### ■ HD MODE

	PICTURE	BRIGHT	COLOR	TINT	DETAIL	COLOR TEMPERATURE	DIG. NOISE CLEAR	COLOR MANAGEMENT
DINAMIC	+05	-02	-08	00	+05	HIGH	OFF	VIVID
STANDARD	00	00	00	00	00	LOW	OFF	VIVID
GAME	-05	00	+03	00	-03	HIGH	OFF	VIVID
THEATER	00	00	00	00	00	LOW	OFF	VIVID

#### (2) SOUND

Setting item	Setting value
TREBLE	00
BASS	00
BALANCE	00
MTS	STREO

#### (3) SETTINGS

Setting item	Setting value	Setting item	Setting value
POSITION ADJUSTMENT	Center	NOISE MUTING	ON
VIDEO STATUS	DYNAMIC	FRONT PANEL LOCK	OFF
XDS ID	ON	AUTO SHUT OFF	OFF
POWER INDICATOR	HIGH	DIGITAL-IN	SIZE-1
TV SPEAKER OFF	ON	V-CHIP	OFF
AUDIO OUTPUT	FIX	AUTO DEMO	OFF
LANGUAGE	ENG	IMAGE SHIFT	STD
CLOSED CAPTION	OFF	V1 SMART INPUT	OFF

#### 3.4 REPLACEMENT OF CHIP COMPONENT

#### 3.4.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

#### 3.4.2 SOLDERING IRON

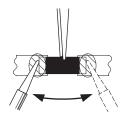
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

#### 3.4.3 REPLACEMENT STEPS

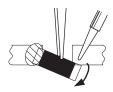
#### 1. How to remove Chip parts

#### [Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



(2) Shift with the tweezers and remove the chip part.

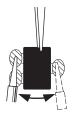


#### [Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



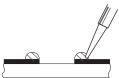
#### NOTE:

After removing the part, remove remaining solder from the pattern.

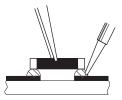
#### 2. How to install Chip parts

#### [Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

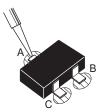


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

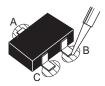


#### [Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead A as indicated in the figure.



(4) Then solder leads B and C.



# SECTION 4 ADJUSTMENTS

#### 4.1 ADJUSTMENT PREPARATION

- (1) There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
- (2) The adjustment using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warning up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

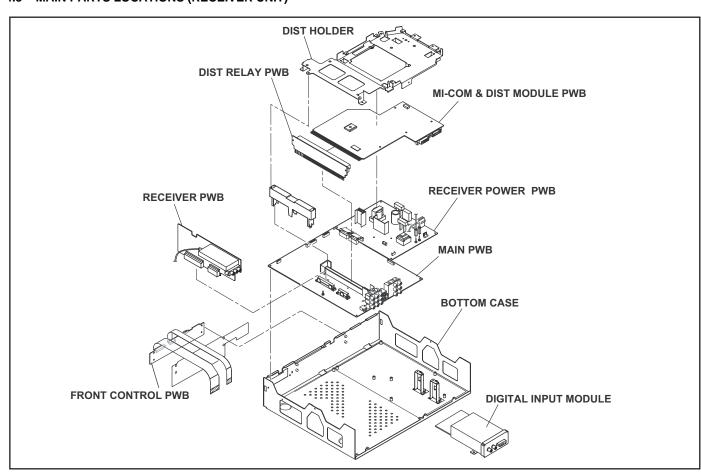
(7) Preparation for adjustment. Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Setting item	Settings
VIDEO STATUS	STANDARD
BRIGHT/CONTRAST/COLOR/TINT	Center
COLOR TEMPERATURE	LOW
DIG. NOISE CLEAR	OFF
COLOR MANEGMENT	STD
NATURAL CINEMA	OFF
DIGITAL VNR	OFF
TREBLE / BASS / BALANCE	Center
BBE	OFF
AHS	OFF
AHB	OFF

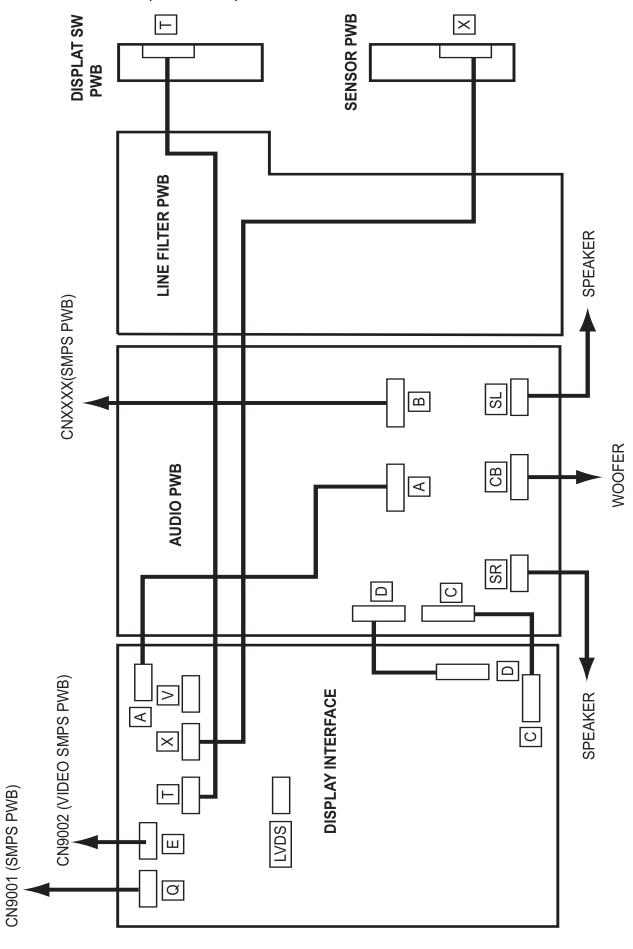
#### 4.2 MEASURING INSTRUMENT AND FIXTURES

- DC voltmeter (or Digital voltmeter)
- Oscilloscope
- Signal generator (Pattern generator)
- · Remote control unit

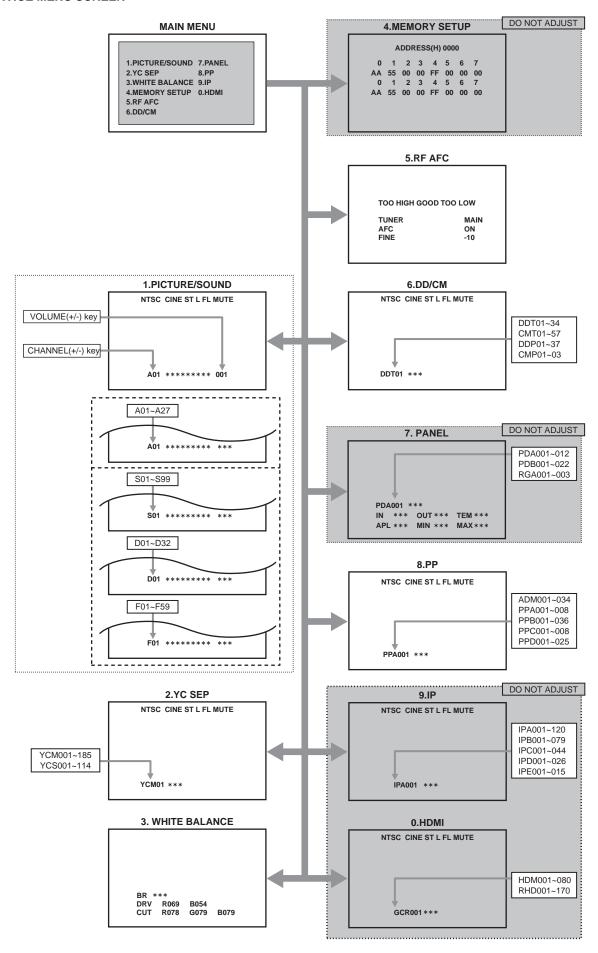
#### 4.3 MAIN PARTS LOCATIONS (RECEIVER UNIT)



#### 4.4 MAIN PARTS LOCATIONS (DISPLAY UNIT)



#### 4.5 SERVICE MENU SCREEN



#### 4.6 BASIC OPERATION OF THE SERVICE MODE [USING REMOTE CONTROL]

#### 4.6.1 HOW TO ENTER THE SERVICE MODE

#### NOTE:

Ensure that the cursor (arrow) of the User Menu screen is pointing at Picture Control.

Before entering the SERVICE MENU, confirm that the setting of TV / CATV SW of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR / DVD SW is at the "VCR" side. If the switches have not been properly set, you cannot enter the SERVICE MENU.

- (1) Set to 0 minutes using the [SLEEP TIMER] key.
- (2) Press the [VIDEO STATUS] key and [DISPLAY] key simultaneously, then enter the Service Menu mode.
- (3) When the Main Menu is displayed, press any key of the [0] to [9] key to enter the corresponding menu mode.

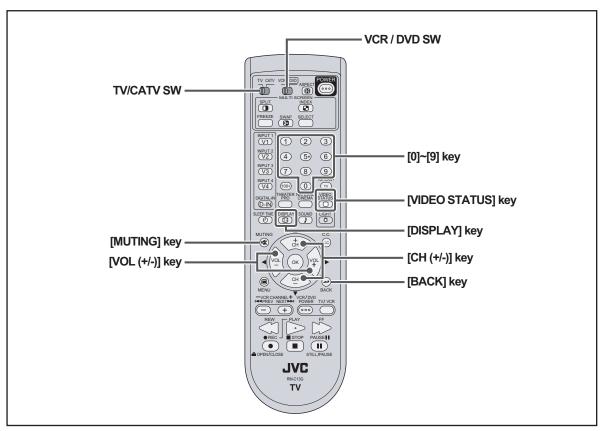
  \*Press any of the [0] to [9] keys before the Service Menu mode disappears.
- (4) Select the service item using the [CH (+/-)] key.
- (5) Set the value using the [VOL. (+/-)] key.
- (6) Press the [MUTING] key to save the value.

# 1.PICTURE/SOUND 7.PANEL 2.YC SEP 8.PP 3.WHITE BALANCE 9.IP 4.MEMORY SETUP 0.HDMI 5.RF AFC 6.DD/CM

#### 4.6.2 HOW TO EXIT THE SERVICE MODE

Press the [BACK] key to exit the Service mode.

#### 4.6.3 SERVICE CONTROL KEY LAYOUT ON THE REMOTE CONTROL



#### 4.6.4 SETTINGS OF THE SERVICE MENUS

#### 4.6.4.1 [1. PICTURE/SOUND (Picture/sound setting)]

Adjusts output data to ports such as Audio, Drive, Video and others (Item F):

#### (1) SIGNAL TYPE

The signal currently displayed on the screen is displayed.

NTSC: NTSC (525i = S/Composite)

DVD : 525i (Component)

ED : 525p HD : 1125i 750p : 750p

HED1 : HDCP 525p size1 HED2 : HDCP 525p size2 HHD : HDCP 1125i H750 : HDCP 750p

#### (2) ASPECT / MULTI

ONE SCREEN

FULL : FULL
PANO : PANORAMA
CINE : CINEMA
REGU : REGULER

**MULTI SCREEN** 

M1 : SINGLE (for adjustment)

M2-1 : SPLIT (4:3) M2-2 : SPLIT (16:9) M4 : POP M12 : INDEX

#### (3) PICTURE SELECTION

Displays current picture selection mode

ST : STANDARD DA : DINAMIC TH : THEATER GA : GAME

#### (4) WHITE BALANCE

Displays white balance setting item in the picture selection mode

H : HIGH L : LOW

#### (5) SERVICE ITEM CODES

Displays corresponding codes for A: Sound, S: Signal, D: Deflection and F: Factory Settings.

< Settings of Service Item >

• [ CH (+/-)] key

For scrolling up/ down the item codes.

• [SLEEP TIMER] key

For switching to the next item.

#### (6) VALUE SETTING (DATA)

Specify values for each of the items in sequence.

• [ VOL (+/-)] key

For selecting the value (data) of each item by scrolling up/down the key.

[MUTING] key

For saving the entered values (data).

#### (7) DATA SAVING METHOD

Displays the method for saving the entered values (data).

MUTE: Press [MUTING] key

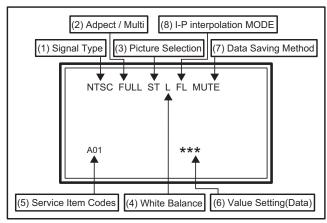
DIR : Change data then memory at the same time.

#### (8) I-P interpolation MODE

Not required in servicing.

FL: FRAME L1: LINE

23 : COMPULSORY NATURAL CINEMA IN



#### NOTE:

Setting for any of the following items that is not included in the "ADJUSTMENT PROCEDURE" section found in the later part of this manual will not be performed in servicing.

#### 4.6.4.2 [2. YC SEP (3D Y/C Separation setting)]

< Do not change settings of items that are not included in the "ADJUSTMENT PROCEDURE" section. >

Sets output data to the 3D Y/C separation circuit.

• [CH (+/-)] key

For scrolling up/down the item codes.

• [ VOL (+/-)] key

For scrolling up/down the data values.

#### 4.6.4.3 [3. WHITE BALANCE (White Balance setting)]

Setting for this item is not required in servicing.

#### 4.6.4.4 [4. MEMORY SETUP (Memory setting)]

[Do not change settings]

#### 4.6.4.5 [5. RF AFC]

Setting for this item is not required in servicing.

#### 4.6.4.6 [6. DD/CM]

< Do not change settings of items that are not included in the "ADJUSTMENT PROCEDURE" section. >

Adjustment of color manegment and device driver

• [CH (+/-)] key

For scrolling up/down the item codes.

[ VOL (+/-)] key

For scrolling up/down the data values.

#### 4.6.4.7 [7. PANEL]

[Do not change settings]

Panel power limit control

#### 4.6.4.8 [8. PP (Multi-screen Processing setting)]

< Do not change settings of items that are not included in the "ADJUSTMENT PROCEDURE" section. >

Sets output data to the multi-screen processing circuit.

• [ CH (+/-)] key

For scrolling up/down the item codes.

• [ VOL (+/-)] key

For scrolling up/down the data values.

#### 4.6.4.9 [9. IP (DIST setting)]

[Do not change settings]

Sets output data to the DIST circuit.

#### 4.6.4.10 [0. HDMI]

[Do not change settings]

Sets output data to the DIGITAL INPUT circuit

#### 4.7 INITIAL SETTING VALUES IN THE SERVICE MODE

- Perform fine-tuning based on the "initial values" using the remote control when in the Service mode.
- The "initial values" serve only as an indication rough standard and therefore the values with which optimal display can be achieved may be different from the default values. But, don't change the values that are not written in "ADJUSTMENT PROCEDURE". They are fixed values.

#### NOTE:

As for the items whose settings are "Fixed" in Table 1 in "3.3 REPLACEMENT OF MEMORY IC", the following tables show initial values in NTSC signal input mode. As for the items whose conditions of SETTING VALUE are not written in the following tables, the following tables show initial values in NTSC signal input mode.

• Among the initial values, there are some that are displayed "( )"as offset values. These are values relative to the base or absolute values. Set the values by addinG offset values to the base values. Base values are displayed as "---".

#### 4.7.1 < 1.PICTURE/SOUND >

Item No.	Item	Variable range	Setting value						
A01	(Not display)	000~007	003						
A02	(Not display)	000~007	003						
A03	(Not display)	000~007	003						
A04	(Not display)	000~007	004						
A05	(Not display)	000~015	009						
A06	(Not display)	000~015	006						
A07	(Not display)	000~015	006						
A08	(Not display)	000~015	003						
A09	(Not display)	000~007	006						
A10	(Not display)	000~007	004						
A11	(Not display)	000~063	063						
A12	(Not display)	000~063	063						
A13	(Not display)	000~003	000						
A14	(Not display)	000~007	000						

Item No.	Item	Variable range	Setting value
A15	(Not display)	000~003	000
A16	(Not display)	000~003	000
A17	(Not display)	000~003	000
A18	IN LEVEL	000~255	(Not used)
A19	LOW SEP	000~255	(Not used)
A20	HI SEP	000~255	(Not used)
A21	AHS MVE	-128~+127	000
A22	AHS MSC	-128~+127	000
A23	(Not display)	000~001	(Not used)
A24	(Not display)	000~001	(Not used)
A25	(Not display)	000~001	(Not used)
A26	(Not display)	000~001	(Not used)
A27	(Not display)	000~001	(Not used)

		Variable range	Setting value								
Item No.	Item		NTSC		525i		525p		750p/1125i		
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	
S01	COLOR	000~255	140	135	140	130	140	130	148	140	
S02	TINAD	000~255	000	000	000	000	000	000	000	000	
S03	OF COLOR	-127~128	()	()	()	()	()	()	()	()	
S04	OF TINAD	-127~128	()	()	()	()	()	()	()	()	

	Item	Variable range	Setting value								
Item No.			NTSC		525i/525p		750p/1125i				
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER			
S05	BRIG	000~255	038	038	044	040	043	038			
S06	CONT	000~255	125	125	128	128	128	128			
S07	OF BRIG	-127~128	()	()	()	()	()	()			
S08	OF CONT	-127~128	()	()	()	()	()	()			

		Variable range		Setting value								
No.	Item		NTSC		525i		525p		750p/1125i			
		rungo	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER		
S09	BYGN	000~255	126	130	125	130	128	130	118	120		
S10	OF BYGN	-127~128	()	()	()	()	()	()	()	()		
S11	RYAXIS	-127~128	+006	000	+006	000	+006	000	000	000		
S12	MTX	000~003	000	000	000	000	000	000	001	001		

Item No.	Item	Variable range	Setting value
S13	(Not display)		(Not used)
S14	(Not display)		(Not used)
S15	(Not display)		(Not used)
S16	(Not display)		(Not used)
S17	(Not display)		(Not used)
S18	(Not display)		(Not used)

					Setting	value		
Item No.	Item	Variable range	NT	sc	525i	525p	750p/	1125i
110.		range	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S19	CUTR	000~255	128	128	128	128	128	128
S20	OF CUTR	-127~128	000	000	000	000	000	000
S21	CUTG	000~255	128	128	128	128	128	128
S22	OF CUTG	-127~128	128	128	128	128	128	128
S23	CUTB	000~255	128	128	128	128	128	128
S24	OF CUTB	-127~128	000	000	000	000	000	000
S25	CUTR	000~001	000	000	000	000	000	000
S26	CUTG	000~001	000	000	000	000	000	000
S27	CUTB	000~001	000	000	000	000	000	000
S28	BTHN	000~001	001	000	001	000	001	000
S29	BCALM	000~001	000	000	000	000	000	000
S30	BKAKOU	000~031	008	003	002	000	002	004
S31	BLIM	000~063	016	010	015	000	015	003
S32	BSTPO	000~063	048	050	050	050	055	050
S33	BKAKON	000~001	001	001	001	001	001	001
S34	WTHN	000~001	001	001	001	001	001	001
S35	WCALM	000~001	000	000	000	000	000	001
S36	WKAKOU	000~031	000	000	000	000	000	000
S37	WLIM	000~255	200	255	220	255	225	225
S38	WSTPO	000~063	050	000	054	000	018	000
S39	WPEAK	000~063	060	063	065	063	060	063
S40	WKAKON	000~001	001	000	001	000	001	000
S41	WGAINC	000~001	000	001	001	001	000	001
S42	GAINB	000~003	001	000	001	000	000	000
S43	SLIC	000~031	011	031	013	031	012	031
S44	APG	000~003	001	003	001	003	001	003
S45	GAINA	000~003	001	003	001	003	001	003

Item	ltem	Variable	Setting value		
No.		range	STANDARD	THEATER	
S46	(Not used)	000~015	015	015	
S47	(Not used)	000~015	015	015	

Itama			Setting value							
Item No.	Item	Variable range	NTSC		525i/525p		750p/1125i			
		•	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER		
S48	DCTRAN	000~015	015	015	015	015	015	015		

Item	Item	Variable	Setting	y value
No.	item	range	SPLIT-SCREEN	REGULAR
S49	HSTR	000~001	000	000
S50	HSTR	000~255	013	019
S51	HEND	000~001	000	000
S52	HEND	000~255	076	067
S53	VSTR	000~001	000	000
S54	VSTR	000~255	005	005
S55	VEND	000~001	000	000
S56	VEND	000~255	094	094
S57	BHSTR	000~255	000	000
S58	BHSTR	000~015	000	000
S59	BHEND	000~255	013	013
S60	BHEND	000~015	000	000

	Item	Variable range	Setting value							
Item No.			NTSC		525i/525p		750p/1125i			
		rungo	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER		
S61	PLPOL2	000~001	001	001	001	001	001	001		
S62	PLEV2	000~127	016	016	016	016	016	016		
S63	PLPOL1	000~001	000	000	000	000	000	000		
S64	PLEV1	000~127	000	000	000	000	000	000		

#### NOTE:

Data of the setting value is selected in the order of "SPLIT-SCREEN" and "REGULAR".

				Setting value									
	Item			NT	SC								
Item No.		Variable range	MULTI-S	MULTI-SCREEN		ECT	525i/525p		750p/1125i				
		range		LIT	REGU	JLAR							
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER			
S65	MODC	000~003	003	003	003	003	002	002	002	002			
S66	RMC	000~003	001	001	003	003	001	003	003	003			
S67	RGA	000~003	003	003	003	003	002	003	003	003			
S68	CLIP	000~015	000	000	000	000	000	000	000	000			
S69	COR	000~063	019	019	019	019	019	019	019	019			

Item No.	Item	Variable range	Setting value
S70	TINTON	001~001	001
S71	DRIVER	001~255	240
S72	DRIVEG	001~255	240
S73	DRIVEB	001~255	240
S74	EECONT	001~031	006
S75	EEBRT	001~031	003

Item	tem Item Variable			Setting value		
No.	iteiii	range	NTSC	525i/525p	750/1125i	
S76	EETBRT	-127~128	000	000	000	
S77	EETCONT	-127~128	000	000	000	

Item	Item	Variable	Setting value		
No.	iteiii	range	STANDARD	THEATER	
S78	PICMAX	001~255	255	255	
S79	PICMIN	001~255	000	000	
S80	BRTMAX	001~255	255	255	
S81	BRTMIN	001~255	000	000	
S82	COLMAX	001~255	255	255	
S83	COLMIN	001~255	000	000	

Item No.	Item	Variable range	Setting value
S84	(Not display)	001~015	(Not used)
S85	(Not display)	001~255	(Not used)
S86	(Not display)	001~255	(Not used)
S87	(Not display)	001~003	(Not used)

						Setting	g value			
Item No.	Item		NT	SC	52	5i	52	5p	750p/	1125i
110.		range	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	007         007           030         030           000         000           007         007           031         031           007         007           031         031           060         060           006         006           030         025	THEATER
S88	APLGAIN	001~007	007	007	007	007	007	007	007	007
S89	APLLIM	001~255	030	030	030	030	030	030	030	030
S90	ABSGAIN	001~127	000	000	000	000	000	000	000	000
S91	BLKGAIN	001~007	007	007	007	007	007	007	007	007
S92	BLKLIM	001~031	031	031	031	031	031	031	031	031
S93	WHTGAIN	001~007	007	007	007	007	007	007	007	007
S94	WHTLIM	001~031	031	031	031	031	031	031	031	031
S95	DCSTART	001~255	060	060	055	060	055	060	060	060
S96	DCGAIN	001~015	008	006	018	006	008	800	006	006
S97	DCLIM	001~063	030	025	025	019	025	025	030	025
S98	(Not display)	001~001	000	000	000	000	000	000	000	000
S99	(Not display)	001~001	000	000	000	000	000	000	000	000

Item No.	Item	Variable range	Setting value
F01	(Not display)	000~255	008
F02	(Not display)	000~255	001
F03	(Not display)	000~255	000
F04	(Not display)	000~255	032
F05	(Not display)	000~001	000
F06	(Not display)	000~001	001
F07	(Not display)	000~255	111
F08	(Not display)	000~255	039
F09	(Not display)	000~015	000
F10	(Not display)	000~015	000
F11	(Not display)	000~015	000
F12	(Not display)	000~015	000
F13	(Not display)	000~015	000
F14	(Not display)	000~015	000
F15	(Not display)	000~015	000
F16	(Not display)	000~127	070
F17	(Not display)	000~001	000
F18	(Not display)	000~001	000
F19	(Not display)	000~001	000
F20	(Not display)	000~255	005
F21	(Not display)	000~255	002
F22	(Not display)	000~001	000
F23	(Not display)	000~255	098
F24	(Not display)	000~255	006
F25	(Not display)	000~255	040
F26	(Not display)	000~255	040
F27	(Not display)	000~255	000
F28	(Not display)	000~001	000
F29	(Not display)	000~001	000
F30	(Not display)	000~001	000
F31	(Not display)	000~001	000
F32	(Not display)	000~255	006
F33	(Not display)	000~255	000
F34	(Not display)	000~255	251
F35	(Not display)	000~255	030
F36	(Not display)	000~255	255
F37	(Not display)	000~001	000
F38	(Not display)	000~001	000
F39	(Not display)	000~001	000
F40	(Not display)	000~001	000

		V. 1.11.	Setting value								
No. Item	Variable range	NTSC	525i	25i 525p 750p 1	1125i	DIGITAL					
		141190	N13C 525	3231	525p	750p	11231	525i	525p	750p	1125i
F41	(Not display)	000~003	000	002	002	002	002	002	002	002	002
F42	(Not display)	000~001	000	000	000	000	000	000	000	000	000
F43	(Not display)	000~063	039	044	037	025	026	040	037	037	040

Item No.	Item	Variable range	Setting value
F44	(Not display)	000~001	000
F45	(Not display)	000~007	000
F46	OUT LV.	000~255	090
F47	LIMIT B	000~255	000
F48	LIMIT A	000~255	000
F49	(Not display)	000~255	128
F50	(Not display)	000~255	128
F51	(Not display)	000~255	128
F52	(Not display)	000~255	255
F53	(Not display)	000~001	(NOT USED)
F54	(Not display)	000~001	(NOT USED)
F55	(Not display)	000~001	(NOT USED)
F56	(Not display)	000~001	(NOT USED)
F57	(Not display)	000~001	(NOT USED)
F58	(Not display)	000~001	(NOT USED)
F59	(Not display)	000~001	(NOT USED)
F60	(Not display)	000~001	(NOT USED)
F61	(Not display)	000~001	(NOT USED)
F62	(Not display)	000~001	(NOT USED)
F63	(Not display)	000~001	(NOT USED)
F64	(Not display)	000~001	(NOT USED)
F65	(Not display)	000~001	(NOT USED)
F66	(Not display)	000~001	(NOT USED)
F67	(Not display)	000~001	(NOT USED)
F68	(Not display)	000~001	(NOT USED)
F69	(Not display)	000~001	(NOT USED)
F70	(Not display)	000~001	(NOT USED)

#### 4.7.2 [2.YC SEP]

#### NOTE:

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD

COLOR TEMPERATURE: LOW

Item No.	Item	Variable range	Setting value
YCM001	(Not display)	000~001	000
YCM002	(Not display)	000~001	000
YCM003	(Not display)	000~001	000
YCM004	(Not display)	000~003	001
YCM005	(Not display)	000~255	239
YCM006	(Not display)	000~003	001
YCM007	(Not display)	000~255	239
YCM008	(Not display)	000~001	001
YCM009	(Not display)	000~003	000
YCM010	(Not display)	000~001	000
YCM011	(Not display)	000~001	000
YCM012	(Not display)	000~001	000
YCM013	(Not display)	000~001	000
YCM014	(Not display)	000~003	000
YCM015	(Not display)	000~001	000
YCM016	(Not display)	000~003	001
YCM017	(Not display)	000~001	001
YCM018	(Not display)	000~003	000
YCM019	(Not display)	000~001	000
YCM020	(Not display)	000~001	000
YCM021	(Not display)	000~003	002
YCM022	(Not display)	000~007	004
YCM023	(Not display)	000~001	001
YCM024	(Not display)	000~001	000
YCM025	(Not display)	000~007	005
YCM026	(Not display)	000~015	003
YCM027	(Not display)	000~003	000
YCM028	(Not display)	000~007	003
YCM029	(Not display)	000~007	002
YCM030	(Not display)	000~003	003
YCM031	(Not display)	000~001	000
YCM032	(Not display)	000~003	003
YCM033	(Not display)	000~001	001
YCM034	(Not display)	000~001	000
YCM035	(Not display)	000~255	096
YCM036	(Not display)	000~001	001
YCM037	(Not display)	000~003	001
YCM038	(Not display)	000~127	062

Item No.	Item	Variable range	Setting value
YCM039	(Not display)	000~127	072
YCM040	(Not display)	000~003	002
YCM041	(Not display)	000~063	032
YCM042	(Not display)	000~001	000
YCM043	(Not display)	000~001	000
YCM044	(Not display)	000~255	200
YCM045	(Not display)	000~001	000
YCM046	(Not display)	000~255	146
YCM047	(Not display)	000~001	001
YCM048	(Not display)	000~001	000
YCM049	(Not display)	000~001	001
YCM050	(Not display)	000~001	000
YCM051	(Not display)	000~001	000
YCM052	(Not display)	000~001	001
YCM053	(Not display)	000~001	000
YCM054	(Not display)	000~003	002
YCM055	(Not display)	000~003	003
YCM056	(Not display)	000~003	000
YCM057	(Not display)	000~001	000
YCM058	(Not display)	000~001	001
YCM059	(Not display)	000~001	001
YCM060	(Not display)	000~001	000
YCM061	(Not display)	000~001	001
YCM062	(Not display)	000~015	001
YCM063	(Not display)	000~015	004
YCM064	(Not display)	000~001	000
YCM065	(Not display)	000~063	060
YCM066	(Not display)	000~063	028
YCM067	(Not display)	000~063	025
YCM068	(Not display)	000~063	012
YCM069	(Not display)	000~063	036
YCM070	(Not display)	000~063	031
YCM071	(Not display)	000~255	031
YCM072	(Not display)	000~001	001
YCM073	(Not display)	000~001	001
YCM074	(Not display)	000~063	048
YCM075	(Not display)	000~001	000
YCM076	(Not display)	000~001	001
YCM077	(Not display)	000~063	010
YCM078	(Not display)	000~063	001
YCM079	(Not display)	000~255	000
YCM080	(Not display)	000~255	000
YCM081	(Not display)	000~255	000
YCM082	(Not display)	000~255	000

Item No.	Item	Variable range	Setting value
YCM083	(Not display)	000~001	001
YCM084	(Not display)	000~063	012
YCM085	(Not display)	000~001	000
YCM086	(Not display)	000~001	000
YCM087	(Not display)	000~063	028
YCM088	(Not display)	000~001	001
YCM089	(Not display)	000~031	000
YCM090	(Not display)	000~003	000
YCM091	(Not display)	000~015	000
YCM092	(Not display)	000~015	000
YCM093	(Not display)	000~015	003
YCM094	(Not display)	000~063	002
YCM095	(Not display)	000~255	045
YCM096	(Not display)	000~001	000
YCM097	(Not display)	000~063	032
YCM098	(Not display)	000~015	800
YCM099	(Not display)	000~015	005
YCM100	(Not display)	000~015	800
YCM101	(Not display)	000~015	005
YCM102	(Not display)	000~015	000
YCM103	(Not display)	000~015	002
YCM104	(Not display)	000~015	800
YCM105	(Not display)	000~015	006
YCM106	(Not display)	000~255	010
YCM107	(Not display)	000~255	032
YCM108	(Not display)	000~255	031
YCM109	(Not display)	000~255	064
YCM110	(Not display)	000~001	000
YCM111	(Not display)	000~001	001
YCM112	(Not display)	000~001	001
YCM113	(Not display)	000~001	001
YCM114	(Not display)	000~001	000
YCM115	(Not display)	000~001	001
YCM116	(Not display)	000~001	000
YCM117	(Not display)	000~001	000
YCM118	(Not display)	000~001	001
YCM119	(Not display)	000~001	000
YCM120	(Not display)	000~001	000
YCM121	(Not display)	000~003	003
YCM122	(Not display)	000~001	000
YCM123	(Not display)	000~255	000
YCM124	(Not display)	000~001	000
YCM125	(Not display)	000~255	002
YCM126	(Not display)	000~001	000
YCM127	(Not display)	000~001	001

Item No.	Item	Variable range	Setting value
YCM128	(Not display)	000~001	001
YCM129	(Not display)	000~001	001
YCM130	(Not display)	000~003	001
YCM131	(Not display)	000~255	036
YCM132	(Not display)	000~255	160
YCM133	(Not display)	000~255	055
YCM134	(Not display)	000~007	001
YCM135	(Not display)	000~255	136
YCM136	(Not display)	000~001	000
YCM137	(Not display)	000~001	001
YCM138	(Not display)	000~007	003
YCM139	(Not display)	000~255	141
YCM140	(Not display)	000~007	000
YCM141	(Not display)	000~255	014
YCM142	(Not display)	000~001	000
YCM143	(Not display)	000~007	005
YCM144	(Not display)	000~255	128
YCM145	(Not display)	000~001	000
YCM146	(Not display)	000~001	001
YCM147	(Not display)	000~001	001
YCM148	(Not display)	000~001	001
YCM149	(Not display)	000~001	000
YCM150	(Not display)	000~001	000
YCM151	(Not display)	000~255	136
YCM152	(Not display)	000~001	001
YCM153	(Not display)	000~001	001
YCM154	(Not display)	000~001	001
YCM155	(Not display)	000~003	000
YCM156	(Not display)	000~015	015
YCM157	(Not display)	000~015	004
YCM158	(Not display)	000~001	001
YCM159	(Not display)	000~127	004
YCM160	(Not display)	000~001	001
YCM161	(Not display)	000~031	000
YCM162	(Not display)	000~001	000
YCM163 YCM164	(Not display) (Not display)	000~015 000~007	003 002
YCM165	(Not display)	000~007	002
YCM166	(Not display)	000~051	235
YCM167	(Not display)	000~233	000
YCM168	(Not display)	000~063	000
YCM169	(Not display)	000~015	003
YCM170	(Not display)	000~015	003
YCM171	(Not display)	000~007	000
YCM172	(Not display)	000~255	096

Item No.	Item	Variable range	Setting value
YCM173	(Not display)	000~007	003
YCM174	(Not display)	000~255	056
YCM175	(Not display)	000~001	000
YCM176	(Not display)	000~001	000
YCM177	(Not display)	000~255	022
YCM178	(Not display)	000~001	001
YCM179	(Not display)	000~001	000
YCM180	(Not display)	000~007	004
YCM181	(Not display)	000~003	001
YCM182	(Not display)	000~003	001
YCM183	(Not display)	000~003	001
YCM184	(Not display)	000~003	001
YCM185	(Not display)	000~255	000

Item No.	Item	Variable range	Setting value
YCS001	(Not display)	000~001	000
YCS002	(Not display)	000~001	000
YCS003	(Not display)	000~001	000
YCS004	(Not display)	000~003	003
YCS005	(Not display)	000~255	168
YCS006	(Not display)	000~003	003
YCS007	(Not display)	000~255	168
YCS008	(Not display)	000~001	000
YCS009	(Not display)	000~003	000
YCS010	(Not display)	000~001	001
YCS011	(Not display)	000~001	000
YCS012	(Not display)	000~001	000
YCS013	(Not display)	000~001	000
YCS014	(Not display)	000~003	000
YCS015	(Not display)	000~001	000
YCS016	(Not display)	000~003	000
YCS017	(Not display)	000~001	000
YCS018	(Not display)	000~003	000
YCS019	(Not display)	000~001	000
YCS020	(Not display)	000~001	000
YCS021	(Not display)	000~003	002
YCS022	(Not display)	000~007	004
YCS023	(Not display)	000~001	000
YCS024	(Not display)	000~001	001
YCS025	(Not display)	000~015	002
YCS026	(Not display)	000~015	003
YCS027	(Not display)	000~003	000
YCS028	(Not display)	000~007	002
YCS029	(Not display)	000~007	006
YCS030	(Not display)	000~003	000

Item No.	Item	Variable range	Setting value
YCS031	(Not display)	000~001	000
YCS032	(Not display)	000~003	003
YCS033	(Not display)	000~001	001
YCS034	(Not display)	000~001	000
YCS035	(Not display)	000~255	028
YCS036	(Not display)	000~001	000
YCS037	(Not display)	000~003	000
YCS038	(Not display)	000~127	080
YCS039	(Not display)	000~127	084
YCS040	(Not display)	000~003	002
YCS041	(Not display)	000~063	016
YCS042	(Not display)	000~001	000
YCS043	(Not display)	000~001	000
YCS044	(Not display)	000~255	128
YCS045	(Not display)	000~001	000
YCS046	(Not display)	000~255	128
YCS047	(Not display)	000~001	001
YCS048	(Not display)	000~031	000
YCS049	(Not display)	000~003	000
YCS050	(Not display)	000~015	000
YCS051	(Not display)	000~015	800
YCS052	(Not display)	000~015	001
YCS053	(Not display)	000~063	010
YCS054	(Not display)	000~255	016
YCS055	(Not display)	000~001	001
YCS056	(Not display)	000~063	016
YCS057	(Not display)	000~015	800
YCS058	(Not display)	000~015	005
YCS059	(Not display)	000~015	800
YCS060	(Not display)	000~015	005
YCS061	(Not display)	000~015	000
YCS062	(Not display)	000~015	002
YCS063	(Not display)	000~015	800
YCS064	(Not display)	000~015	006
YCS065	(Not display)	000~255	010
YCS066	(Not display)	000~255	032
YCS067	(Not display)	000~255	031
YCS068 YCS069	(Not display)	000~255 000~001	089
YCS069 YCS070	(Not display) (Not display)	000~001	000
YCS070	(Not display)	000~001	001
YCS071	(Not display)	000~001	001
YCS072	(Not display)	000~001	000
YCS074	(Not display)	000~001	000
YCS074	(Not display)	000~001	000
1030/5	(Not display)	000~00 I	000

Item No.	Item	Variable range	Setting value
YCS076	(Not display)	000~001	000
YCS077	(Not display)	000~001	000
YCS078	(Not display)	000~001	000
YCS079	(Not display)	000~001	000
YCS080	(Not display)	000~003	003
YCS081	(Not display)	000~001	000
YCS082	(Not display)	000~255	039
YCS083	(Not display)	000~255	055
YCS084	(Not display)	000~007	000
YCS085	(Not display)	000~255	010
YCS086	(Not display)	000~001	001
YCS087	(Not display)	000~001	001
YCS088	(Not display)	000~001	000
YCS089	(Not display)	000~001	000
YCS090	(Not display)	000~255	136
YCS091	(Not display)	000~001	001
YCS092	(Not display)	000~001	001
YCS093	(Not display)	000~001	001
YCS094	(Not display)	000~003	000
YCS095	(Not display)	000~015	015
YCS096	(Not display)	000~015	002
YCS097	(Not display)	000~001	000
YCS098	(Not display)	000~127	007
YCS099	(Not display)	000~031	000
YCS100	(Not display)	000~001	000
YCS101	(Not display)	000~015	003
YCS102	(Not display)	000~007	002
YCS103	(Not display)	000~031	016
YCS104	(Not display)	000~255	235
YCS105	(Not display)	000~003	000
YCS106	(Not display)	000~063	000
YCS107	(Not display)	000~015	003
YCS108	(Not display)	000~015	003
YCS109	(Not display)	000~001	000
YCS110	(Not display)	000~003	001
YCS111	(Not display)	000~003	001
YCS112	(Not display)	000~003	001
YCS113	(Not display)	000~003	001
YCS114	(Not display)	000~255	000

#### 4.7.3 [3.WHITE BALANCE]

#### NOTE:

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD

COLOR TEMPERATURE: LOW

Item No.	Item	Variable range	Setting value
BR	(Not display)	00000~238	111
DRV R	(Not display)	00000~255	130
DRV B	(Not display)	00000~255	132
CUT R	(Not display)	00000~255	048
CUT G	(Not display)	00000~255	237
CUT B	(Not display)	00000~255	062

#### 4.7.4 [6.DD/CM]

Item No.	Item	Variable range	Setting value
DDT01	(Not display)	000~015	000
DDT02	(Not display)	000~255	020
DDT03	(Not display)	000~255	174
DDT04	(Not display)	000~255	255
DDT05	(Not display)	000~255	000
DDT06	(Not display)	000~255	255
DDT07	(Not display)	000~003	000
DDT08	(Not display)	000~255	255
DDT09	(Not display)	000~003	000
DDT10	(Not display)	000~255	000
DDT11	(Not display)	000~007	002
DDT12	(Not display)	000~255	115
DDT13	(Not display)	000~255	000
DDT14	(Not display)	000~003	001
DDT15	(Not display)	000~007	000
DDT16	(Not display)	000~255	123
DDT17	(Not display)	000~001	001
DDT18	(Not display)	000~001	000
DDT19	(Not display)	000~063	001
DDT20	(Not display)	000~015	000
DDT21	(Not display)	000~015	000
DDT22	(Not display)	000~015	000
DDT23	(Not display)	000~015	000
DDT24	(Not display)	000~001	000
DDT25	(Not display)	000~001	000
DDT26	(Not display)	000~001	000
DDT27	(Not display)	000~007	000
DDT28	(Not display)	000~255	120
DDT29	(Not display)	000~003	002

Item No.	Item	Variable range	Setting value
DDT30	(Not display)	000~001	000
DDT31	(Not display)	000~007	000
DDT32	(Not display)	000~255	010
DDT33	(Not display)	000~255	000
DDT34	(Not display)	000~255	042

Item No.         Item         Variable range         Setting value           CMT01         (Not display)         000~003         000           CMT02         (Not display)         000~255         093           CMT03         (Not display)         000~255         010           CMT04         (Not display)         000~255         020           CMT05         (Not display)         -032~+031         -004           CMT06         (Not display)         -128~+127         +001           CMT07         (Not display)         -128~+127         -004           CMT08         (Not display)         -128~+127         -004           CMT09         (Not display)         -128~+127         -004           CMT09         (Not display)         -000~003         000           CMT10         (Not display)         000~03         000           CMT11         (Not display)         000~255         020           CMT12         (Not display)         000~255         020           CMT13         (Not display)         -032~+031         -002           CMT14         (Not display)         -128~+127         000           CMT16         (Not display)         -128~+127         000 <th></th>	
CMT02         (Not display)         000~255         093           CMT03         (Not display)         000~255         010           CMT04         (Not display)         000~255         020           CMT05         (Not display)         -032~+031         -004           CMT06         (Not display)         -128~+127         +001           CMT07         (Not display)         -128~+127         -004           CMT08         (Not display)         -128~+127         -004           CMT09         (Not display)         -128~+127         000           CMT10         (Not display)         000~003         000           CMT11         (Not display)         000~255         020           CMT12         (Not display)         -002~255         020           CMT13         (Not display)         -032~+031         -002           CMT14         (Not display)         -128~+127         000           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT20         (Not display)         000~255         030     <	_
CMT03         (Not display)         000~255         010           CMT04         (Not display)         000~255         020           CMT05         (Not display)         -032~+031         -004           CMT06         (Not display)         -128~+127         +001           CMT07         (Not display)         -128~+127         000           CMT08         (Not display)         -128~+127         000           CMT09         (Not display)         000~003         000           CMT10         (Not display)         000~003         000           CMT11         (Not display)         000~255         020           CMT12         (Not display)         000~255         020           CMT13         (Not display)         -032~+031         -002           CMT14         (Not display)         -128~+127         +007           CMT15         (Not display)         -128~+127         000           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT19         (Not display)         000~255         187           CMT20         (Not display)         000~255         030	
CMT04         (Not display)         000~255         020           CMT05         (Not display)         -032~+031         -004           CMT06         (Not display)         -128~+127         +001           CMT07         (Not display)         -128~+127         000           CMT08         (Not display)         -128~+127         000           CMT09         (Not display)         -128~+127         000           CMT10         (Not display)         000~003         000           CMT11         (Not display)         000~255         164           CMT12         (Not display)         000~255         020           CMT13         (Not display)         -032~+031         -002           CMT14         (Not display)         -128~+127         +007           CMT15         (Not display)         -128~+127         000           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030     <	
CMT05         (Not display)         -032~+031         -004           CMT06         (Not display)         -128~+127         +001           CMT07         (Not display)         -128~+127         000           CMT08         (Not display)         -128~+127         -004           CMT09         (Not display)         -128~+127         000           CMT10         (Not display)         000~003         000           CMT11         (Not display)         000~255         164           CMT12         (Not display)         000~255         020           CMT13         (Not display)         -032~+031         -002           CMT14         (Not display)         -128~+127         +007           CMT15         (Not display)         -128~+127         000           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -00~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         -032~+031         -005	
CMT06         (Not display)         -128~+127         +001           CMT07         (Not display)         -128~+127         000           CMT08         (Not display)         -128~+127         -004           CMT09         (Not display)         -128~+127         000           CMT10         (Not display)         000~003         000           CMT11         (Not display)         000~255         164           CMT12         (Not display)         000~255         020           CMT13         (Not display)         -032~+031         -002           CMT14         (Not display)         -128~+127         +007           CMT15         (Not display)         -128~+127         000           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~255         187           CMT20         (Not display)         000~255         030           CMT21         (Not display)         000~255         030           CMT22         (Not display)         -032~+031         -005	
CMT07         (Not display)         -128~+127         000           CMT08         (Not display)         -128~+127         -004           CMT09         (Not display)         -128~+127         000           CMT10         (Not display)         000~003         000           CMT11         (Not display)         000~255         164           CMT12         (Not display)         000~255         020           CMT13         (Not display)         -032~+031         -002           CMT14         (Not display)         -128~+127         +007           CMT15         (Not display)         -128~+127         000           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -00~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         -032~+031         -005	1
CMT08         (Not display)         -128~+127         -004           CMT09         (Not display)         -128~+127         000           CMT10         (Not display)         000~003         000           CMT11         (Not display)         000~255         164           CMT12         (Not display)         000~255         020           CMT13         (Not display)         -032~+031         -002           CMT14         (Not display)         -128~+127         +007           CMT15         (Not display)         -128~+127         000           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         -032~+031         -005	I
CMT09         (Not display)         -128~+127         000           CMT10         (Not display)         000~003         000           CMT11         (Not display)         000~255         164           CMT12         (Not display)         000~255         020           CMT13         (Not display)         -032~+031         -002           CMT14         (Not display)         -128~+127         +007           CMT15         (Not display)         -128~+127         000           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         -032~+031         -005	
CMT10         (Not display)         000~003         000           CMT11         (Not display)         000~255         164           CMT12         (Not display)         000~255         020           CMT13         (Not display)         -032~+031         -002           CMT14         (Not display)         -128~+127         +007           CMT15         (Not display)         -128~+127         000           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         -032~+031         -005	ļ
CMT11         (Not display)         000~255         164           CMT12         (Not display)         000~255         020           CMT13         (Not display)         000~255         020           CMT14         (Not display)         -032~+031         -002           CMT15         (Not display)         -128~+127         +007           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         -032~+031         -005	
CMT12         (Not display)         000~255         020           CMT13         (Not display)         000~255         020           CMT14         (Not display)         -032~+031         -002           CMT15         (Not display)         -128~+127         +007           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         -002~255         030           CMT23         (Not display)         -032~+031         -005	
CMT13         (Not display)         000~255         020           CMT14         (Not display)         -032~+031         -002           CMT15         (Not display)         -128~+127         +007           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         -002~255         030           CMT23         (Not display)         -032~+031         -005	
CMT14         (Not display)         -032~+031         -002           CMT15         (Not display)         -128~+127         +007           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         000~255         030           CMT23         (Not display)         -032~+031         -005	
CMT15         (Not display)         -128~+127         +007           CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         000~255         030           CMT23         (Not display)         -032~+031         -005	
CMT16         (Not display)         -128~+127         000           CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         000~255         030           CMT23         (Not display)         -032~+031         -005	<u>)</u>
CMT17         (Not display)         -128~+127         000           CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         000~255         030           CMT23         (Not display)         -032~+031         -005	7
CMT18         (Not display)         -128~+127         000           CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         000~255         030           CMT23         (Not display)         -032~+031         -005	
CMT19         (Not display)         000~003         000           CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         000~255         030           CMT23         (Not display)         -032~+031         -005	
CMT20         (Not display)         000~255         187           CMT21         (Not display)         000~255         030           CMT22         (Not display)         000~255         030           CMT23         (Not display)         -032~+031         -005	
CMT21         (Not display)         000~255         030           CMT22         (Not display)         000~255         030           CMT23         (Not display)         -032~+031         -005	
CMT22         (Not display)         000~255         030           CMT23         (Not display)         -032~+031         -005	
CMT23 (Not display) -032~+031 -005	
CMT24 (Not display) -128~+127 +003	;
	3
CMT25 <b>(Not display)</b> -128~+127 +010	)
CMT26 (Not display) -128~+127 +005	5
CMT27 (Not display) -128~+127 +010	)
CMT28 (Not display) 000~003 001	
CMT29 (Not display) 000~255 038	
CMT30 (Not display) 000~255 035	
CMT31 (Not display) 000~255 040	
CMT32 (Not display) -032~+031 -004	ļ
CMT33 (Not display) -128~+127 +013	3
CMT34 (Not display) -128~+127 +012	2
CMT35 (Not display) -128~+127 -003	}
CMT36 (Not display) -128~+127 +020	)
CMT37 (Not display) 000~255 064	
CMT38 (Not display) 000~255 064	

Item No.	Item	Variable range	Setting value
CMT39	(Not display)	000~255	088
CMT40	(Not display)	-128~+127	000
CMT41	(Not display)	-128~+127	+010
CMT42	(Not display)	000~001	000
CMT43	(Not display)	000~255	128
CMT44	(Not display)	000~001	001
CMT45	(Not display)	000~255	000
CMT46	(Not display)	000~001	000
CMT47	(Not display)	000~255	128
CMT48	(Not display)	000~001	000
CMT49	(Not display)	000~001	001
CMT50	(Not display)	-016~+015	000
CMT51	(Not display)	-016~+015	000
CMT52	(Not display)	000~001	000
CMT53	(Not display)	000~001	000
CMT54	(Not display)	000~003	000
CMT55	(Not display)	000~001	000
CMT56	(Not display)	000~001	001
CMT57	(Not display)	000~001	001

Item No.	Item	Variable range	Setting value
DDP01	(Not display)	000~003	000
DDP02	(Not display)	000~255	032
DDP03	(Not display)	000~003	002
DDP04	(Not display)	000~003	001
DDP05	(Not display)	000~127	000
DDP06	(Not display)	000~003	001
DDP07	(Not display)	000~031	001
DDP08	(Not display)	000~007	000
DDP09	(Not display)	000~255	188
DDP10	(Not display)	000~007	001
DDP11	(Not display)	000~255	000
DDP12	(Not display)	000~007	007
DDP13	(Not display)	000~007	005
DDP14	(Not display)	000~003	002
DDP15	(Not display)	000~015	004
DDP16	(Not display)	000~015	004
DDP17	(Not display)	000~015	002
DDP18	(Not display)	000~001	000
DDP19	(Not display)	000~001	001
DDP20	(Not display)	000~015	008
DDP21	(Not display)	000~015	006
DDP22	(Not display)	000~015	800
DDP23	(Not display)	000~015	006
DDP24	(Not display)	000~015	800

Item No.	Item	Variable range	Setting value
DDP25	(Not display)	000~015	006
DDP26	(Not display)	000~015	006
DDP27	(Not display)	000~015	008
DDP28	(Not display)	000~015	006
DDP29	(Not display)	000~015	008
DDP30	(Not display)	000~015	008
DDP31	(Not display)	000~015	006
DDP32	(Not display)	000~255	013
DDP33	(Not display)	000~255	133
DDP34	(Not display)	000~255	102
DDP35	(Not display)	000~255	144
DDP36	(Not display)	000~255	013
DDP37	(Not display)	000~063	048

Item No.	Item	Variable range	Setting value
CMP01	(Not display)	000~001	000
CMP02	(Not display)	000~001	000
CMP03	(Not display)	000~001	000

## 4.7.5 [7.PANEL] (\*All the values are fixed values.)

Item No.	Item	Variable range	Setting value
PDA001	(Not display)	000~255	000
PDA002	(Not display)	000~255	207
PDA003	(Not display)	000~255	047
PDA004	(Not display)	000~255	017
PDA005	(Not display)	000~001	000
PDA006	(Not display)	000~001	001
PDA007	(Not display)	000~255	018
PDA008	(Not display)	000~255	000
PDA009	(Not display)	000~255	018
PDA010	(Not display)	000~255	019
PDA011	(Not display)	000~255	000
PDA012	(Not display)	000~235	019

Item No.	Item	Variable range	Setting value
PDB001	(Not display)	000~063	010
PDB002	(Not display)	000~255	031
PDB003	(Not display)	000~255	009
PDB004	(Not display)	000~255	032
PDB005	(Not display)	000~255	028
PDB006	(Not display)	000~001	001
PDB007	(Not display)	000~001	000
PDB008	(Not display)	000~255	029
PDB009	(Not display)	000~255	036
PDB010	(Not display)	000~255	002

Item No.	Item	Variable range	Setting value
PDB011	(Not display)	000~001	001
PDB012	(Not display)	000~001	001
PDB013	(Not display)	000~031	014
PDB014	(Not display)	000~001	000
PDB015	(Not display)	000~001	000
PDB016	(Not display)	000~255	132
PDB017	(Not display)	000~001	001
PDB018	(Not display)	000~255	096
PDB019	(Not display)	000~127	003
PDB020	(Not display)	000~127	080
PDB021	(Not display)	000~001	(NOT USED)
PDB022	(Not display)	000~001	(NOT USED)

Item No.	Item	Variable range	Setting value
RGA001	(Not display)	000~001	000
RGA002	(Not display)	000~001	000
RGA003	(Not display)	000~001	000

## 4.7.6 [8.PP]

## NOTE:

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item	Variable range	Setting value
ADM001	(Not display)	000~0FF	0D6
ADM002	(Not display)	000~00F	007
ADM003	(Not display)	000~003	001
ADM004	(Not display)	000~007	005
ADM005	(Not display)	000~01F	016
ADM006	(Not display)	000~0FF	036
ADM007	(Not display)	000~0FF	08A
ADM008	(Not display)	000~0FF	020
ADM009	(Not display)	000~0FF	0FF
ADM010	(Not display)	000~0FF	0CE
ADM011	(Not display)	000~0FF	0FF
ADM012	(Not display)	000~07F	039
ADM013	(Not display)	000~07F	02B
ADM014	(Not display)	000~07F	039
ADM015	(Not display)	000~001	000
ADM016	(Not display)	000~001	001
ADM017	(Not display)	000~001	001
ADM018	(Not display)	000~001	001
ADM019	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
ADM020	(Not display)	000~001	000
ADM021	(Not display)	000~001	001
ADM022	(Not display)	000~001	000
ADM023	(Not display)	000~001	001
ADM024	(Not display)	000~001	001
ADM025	(Not display)	000~001	000
ADM026	(Not display)	000~001	001
ADM027	(Not display)	000~001	000
ADM028	(Not display)	000~001	000
ADM029	(Not display)	000~001	001
ADM030	(Not display)	000~01F	003
ADM031	(Not display)	000~001	001
ADM032	(Not display)	000~001	000
ADM033	(Not display)	000~001	001
ADM034	(Not display)	000~0FF	032

Item No.	Item	Variable range	Setting value
PPA001	(Not display)	000~0FF	040
PPA002	(Not display)	000~0FF	000
PPA003	(Not display)	000~0FF	05A
PPA004	(Not display)	000~0FF	000
PPA005	(Not display)	000~0FF	000
PPA006	(Not display)	000~0FF	001
PPA007	(Not display)	000~0FF	05A
PPA008	(Not display)	000~0FF	023

Item No.	Item	Variable range	Setting value
PPB001	(Not display)	000~0FF	0E0
PPB002	(Not display)	000~0FF	000
PPB003	(Not display)	000~01F	000
PPB004	(Not display)	000~0FF	0E0
PPB005	(Not display)	000~0FF	014
PPB006	(Not display)	000~01F	000
PPB007	(Not display)	000~0FF	0E0
PPB008	(Not display)	000~0FF	028
PPB009	(Not display)	000~01F	000
PPB010	(Not display)	000~0FF	0E0
PPB011	(Not display)	000~0FF	000
PPB012	(Not display)	000~01F	03C
PPB013	(Not display)	000~0FF	0E0
PPB014	(Not display)	000~0FF	050
PPB015	(Not display)	000~01F	000
PPB016	(Not display)	000~0FF	0E0
PPB017	(Not display)	000~0FF	050
PPB018	(Not display)	000~01F	014

Item No.	Item	Variable range	Setting value
PPB019	(Not display)	000~0FF	0E0
PPB020	(Not display)	000~0FF	050
PPB021	(Not display)	000~01F	028
PPB022	(Not display)	000~0FF	0E0
PPB023	(Not display)	000~0FF	050
PPB024	(Not display)	000~01F	03C
PPB025	(Not display)	000~0FF	0E0
PPB026	(Not display)	000~0FF	0A0
PPB027	(Not display)	000~01F	000
PPB028	(Not display)	000~0FF	0E0
PPB029	(Not display)	000~0FF	0A0
PPB030	(Not display)	000~01F	014
PPB031	(Not display)	000~0FF	0E0
PPB032	(Not display)	000~0FF	0A0
PPB033	(Not display)	000~01F	028
PPB034	(Not display)	000~0FF	0E0
PPB035	(Not display)	000~0FF	0A0
PPB036	(Not display)	000~01F	060

Item No.	Item	Variable range	Setting value
PPC001	(Not display)	000~0FF	0E0
PPC002	(Not display)	000~00F	000
PPC003	(Not display)	000~0FF	002
PPC004	(Not display)	000~00F	000
PPC005	(Not display)	000~0FF	000
PPC006	(Not display)	000~00F	000
PPC007	(Not display)	000~0FF	000
PPC008	(Not display)	000~03F	000
PPC009	(Not display)	000~0FF	004
PPC010	(Not display)	000~03F	056

Item No.	Item	Variable range	Setting value
PPD001	(Not display)	000~0FF	800
PPD002	(Not display)	000~00F	000
PPD003	(Not display)	000~0FF	019
PPD004	(Not display)	000~00F	001
PPD005	(Not display)	000~0FF	094
PPD006	(Not display)	000~00F	000
PPD007	(Not display)	000~0FF	019
PPD008	(Not display)	000~00F	001
PPD009	(Not display)	000~0FF	0B3
PPD010	(Not display)	000~00F	000
PPD011	(Not display)	000~0FF	024
PPD012	(Not display)	000~00F	001
PPD013	(Not display)	000~0FF	039

Item No.	Item	Variable range	Setting value
PPD014	(Not display)	000~00F	000
PPD015	(Not display)	000~0FF	096
PPD016	(Not display)	000~00F	001
PPD017	(Not display)	000~0FF	036
PPD018	(Not display)	000~00F	000
PPD019	(Not display)	000~0FF	024
PPD020	(Not display)	000~00F	001
PPD021	(Not display)	000~0FF	050
PPD022	(Not display)	000~00F	000
PPD023	(Not display)	000~0FF	0AA
PPD024	(Not display)	000~00F	001
PPD025	(Not display)	000~0FF	072

## 4.7.7 [9.IP] (\*All the values are fixed values.)

## NOTE:

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI-SCREEN : SINGLE
VIDEO STATUS : STANDARD

COLOR TEMPERATURE: LOW

Item No.	Item	Variable range	Setting value
IPA001	(Not display)	000~001	001
IPA002	(Not display)	000~03F	020
IPA003	(Not display)	000~03F	020
IPA004	(Not display)	000~03F	025
IPA005	(Not display)	000~003	001
IPA006	(Not display)	000~003	001
IPA007	(Not display)	000~00F	00F
IPA008	(Not display)	000~03F	005
IPA009	(Not display)	000~03F	00A
IPA010	(Not display)	000~03F	020
IPA011	(Not display)	000~03F	01C
IPA012	(Not display)	000~03F	025
IPA013	(Not display)	000~003	001
IPA014	(Not display)	000~003	001
IPA015	(Not display)	000~00F	00F
IPA016	(Not display)	000~03F	005
IPA017	(Not display)	000~001	001
IPA018	(Not display)	000~03F	006
IPA019	(Not display)	000~001	001
IPA020	(Not display)	000~001	001
IPA021	(Not display)	000~03F	015
IPA022	(Not display)	000~003	000
IPA023	(Not display)	000~03F	00A
IPA024	(Not display)	000~001	001

Item No.	Item	Variable range	Setting value
IPA025	(Not display)	000~001	001
IPA026	(Not display)	000~03F	015
IPA027	(Not display)	000~003	000
IPA028	(Not display)	000~03F	00A
IPA029	(Not display)	000~03F	000
IPA030	(Not display)	000~00F	00F
IPA031	(Not display)	000~007	002
IPA032	(Not display)	000~03F	000
IPA033	(Not display)	000~001	001
IPA034	(Not display)	000~03F	000
IPA035	(Not display)	000~001	001
IPA036	(Not display)	000~03F	020
IPA037	(Not display)	000~03F	010
IPA038	(Not display)	000~03F	010
IPA039	(Not display)	000~003	002
IPA040	(Not display)	000~003	002
IPA041	(Not display)	000~00F	00F
IPA042	(Not display)	000~03F	005
IPA043	(Not display)	000~03F	005
IPA044	(Not display)	000~03F	00C
IPA045	(Not display)	000~03F	00A
IPA046	(Not display)	000~03F	00F
IPA047	(Not display)	000~003	002
IPA048	(Not display)	000~003	002
IPA049	(Not display)	000~00F	00F
IPA050	(Not display)	000~03F	005
IPA051	(Not display)	000~001	001
IPA052	(Not display)	000~03F	000
IPA053	(Not display)	000~001	001
IPA054	(Not display)	000~001	001
IPA055	(Not display)	000~03F	025
IPA056	(Not display)	000~003	000
IPA057	(Not display)	000~03F	00A
IPA058	(Not display)	000~001	001
IPA059	(Not display)	000~001	001
IPA060	(Not display)	000~03F	025
IPA061	(Not display)	000~003	000
IPA062	(Not display)	000~03F	00A
IPA063	(Not display)	000~03F	000
IPA064	(Not display)	000~00F	000
IPA065	(Not display)	000~007	000
IPA066	(Not display)	000~03F	000
IPA067	(Not display)	000~001	000
IPA068	(Not display)	000~03F	000
IPA069	(Not display)	000~003	000

Item No.	Item	Variable range	Setting value
IPA070	(Not display)	000~255	000
IPA071	(Not display)	000~00F	005
IPA072	(Not display)	000~0FF	0DC
IPA073	(Not display)	000~001	000
IPA074	(Not display)	000~001	000
IPA075	(Not display)	000~0FF	016
IPA076	(Not display)	000~001	000
IPA077	(Not display)	000~001	000
IPA078	(Not display)	000~001	000
IPA079	(Not display)	000~001	000
IPA080	(Not display)	000~001	000
IPA081	(Not display)	000~001	000
IPA082	(Not display)	000~001	000
IPA083	(Not display)	000~001	000
IPA084	(Not display)	000~001	000
IPA085	(Not display)	000~001	000
IPA086	(Not display)	000~001	000
IPA087	(Not display)	000~001	001
IPA088	(Not display)	000~001	000
IPA089	(Not display)	000~001	000
IPA090	(Not display)	000~001	000
IPA091	(Not display)	000~00F	000
IPA092	(Not display)	000~0FF	000
IPA093	(Not display)	000~00F	00F
IPA094	(Not display)	000~0FF	0FF
IPA095	(Not display)	000~00F	001
IPA096	(Not display)	000~0FF	098
IPA097	(Not display)	000~00F	002
IPA098	(Not display)	000~0FF	0FD
IPA099	(Not display)	000~00F	000
IPA100	(Not display)	000~0FF	000
IPA101	(Not display)	000~00F	000
IPA102	(Not display)	000~0FF	000
IPA103	(Not display)	000~00F	000
IPA104	(Not display)	000~0FF	000
IPA105	(Not display)	000~00F	000
IPA106	(Not display)	000~0FF	000
IPA107	(Not display)	000~00F	000
IPA108	(Not display)	000~0FF	080
IPA109	(Not display)	000~00F	000
IPA110	(Not display)	000~0FF	010
IPA111	(Not display)	000~00F	005
IPA112	(Not display)	000~0FF	040
IPA113	(Not display)	000~00F	000
IPA114	(Not display)	000~0FF	000

Item No.	Item	Variable range	Setting value
IPA115	(Not display)	000~00F	002
IPA116	(Not display)	000~0FF	0EF
IPA117	(Not display)	000~001	000
IPA118	(Not display)	000~001	000
IPA119	(Not display)	000~001	000
IPA120	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
IPB001	(Not display)	000~0FF	001
IPB002	(Not display)	000~0FF	0D9
IPB003	(Not display)	000~00F	0001
IPB004	(Not display)	000~0FF	032
IPB005	(Not display)	000~00F	002
IPB006	(Not display)	000~0FF	000
IPB007	(Not display)	000~00F	001
IPB008	(Not display)	000~0FF	0A0
IPB009	(Not display)	000~00F	001
IPB010	(Not display)	000~0FF	000
IPB011	(Not display)	000~00F	000
IPB012	(Not display)	000~0FF	0C0
IPB013	(Not display)	000~00F	000
IPB014	(Not display)	000~0FF	000
IPB015	(Not display)	000~00F	000
IPB016	(Not display)	000~0FF	024
IPB017	(Not display)	000~00F	000
IPB018	(Not display)	000~0FF	020
IPB019	(Not display)	000~00F	000
IPB020	(Not display)	000~0FF	020
IPB021	(Not display)	000~00F	000
IPB022	(Not display)	000~0FF	03C
IPB023	(Not display)	000~00F	001
IPB024	(Not display)	000~0FF	08A
IPB025	(Not display)	000~00F	000
IPB026	(Not display)	000~0FF	000
IPB027	(Not display)	000~00F	003
IPB028	(Not display)	000~0FF	050
IPB029	(Not display)	000~00F	000
IPB030	(Not display)	000~0FF	05E
IPB031	(Not display)	000~00F	000
IPB032	(Not display)	000~0FF	000
IPB033	(Not display)	000~00F	000
IPB034	(Not display)	000~0FF	000
IPB035	(Not display)	000~00F	000
IPB036	(Not display)	000~0FF	07A
IPB037	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
IPB038	(Not display)	000~007	000
IPB039	(Not display)	000~00F	000
IPB040	(Not display)	000~00F	002
IPB041	(Not display)	000~00F	000
IPB042	(Not display)	000~0FF	000
IPB043	(Not display)	000~00F	001
IPB044	(Not display)	000~0FF	060
IPB045	(Not display)	000~00F	000
IPB046	(Not display)	000~0FF	800
IPB047	(Not display)	000~00F	000
IPB048	(Not display)	000~0FF	0F8
IPB049	(Not display)	000~00F	000
IPB050	(Not display)	000~0FF	0D6
IPB051	(Not display)	000~00F	000
IPB052	(Not display)	000~0FF	000
IPB053	(Not display)	000~00F	000
IPB054	(Not display)	000~0FF	000
IPB055	(Not display)	000~00F	000
IPB056	(Not display)	000~0FF	0A6
IPB057	(Not display)	000~00F	007
IPB058	(Not display)	000~0FF	040
IPB059	(Not display)	000~007	001
IPB060	(Not display)	000~003	000
IPB061	(Not display)	000~003	002
IPB062	(Not display)	000~001	000
IPB063	(Not display)	000~0FF	050
IPB064	(Not display)	000~0FF	080
IPB065	(Not display)	000~0FF	080
IPB066	(Not display)	000~001	000
IPB067	(Not display)	000~00F	000
IPB068	(Not display)	000~00F	000
IPB069	(Not display)	000~00F	000
IPB070	(Not display)	000~00F	00F
IPB071	(Not display)	000~0FF	000
IPB072	(Not display)	000~00F	000
IPB073	(Not display)	000~0FF	000
IPB074	(Not display)	000~001	000
IPB075	(Not display)	000~001	000
IPB076	(Not display)	000~001	000
IPB077	(Not display)	000~015	000
IPB078	(Not display)	000~001	001
IPB079	(Not display)	000~255	(NOT USED)

Item No.	Item	Variable range	Setting value
IPC001	(Not display)	000~003	002
IPC002	(Not display)	000~0FF	0EA
IPC003	(Not display)	000~001	000
IPC004	(Not display)	000~001	000
IPC005	(Not display)	000~00F	000
IPC006	(Not display)	000~0FF	000
IPC007	(Not display)	000~00F	005
IPC008	(Not display)	000~0FF	0DB
IPC009	(Not display)	000~00F	006
IPC010	(Not display)	000~0FF	071
IPC011	(Not display)	000~00F	000
IPC012	(Not display)	000~0FF	000
IPC013	(Not display)	000~003	001
IPC014	(Not display)	000~001	000
IPC015	(Not display)	000~001	001
IPC016	(Not display)	000~0FF	0F0
IPC017	(Not display)	000~001	000
IPC018	(Not display)	000~07F	000
IPC019	(Not display)	000~001	000
IPC020	(Not display)	000~07F	000
IPC021	(Not display)	000~00F	000
IPC022	(Not display)	000~0FF	0A4
IPC023	(Not display)	000~003	002
IPC024	(Not display)	000~0FF	002
IPC025	(Not display)	000~001	000
IPC026	(Not display)	000~07F	004
IPC027	(Not display)	000~001	000
IPC028	(Not display)	000~07F	000
IPC029	(Not display)	000~001	001
IPC030	(Not display)	000~001	000
IPC031	(Not display)	000~001	000
IPC032	(Not display)	000~001	000
IPC033	(Not display)	000~001	000
IPC034	(Not display)	000~001	000
IPC035	(Not display)	000~001	000
IPC036	(Not display)	000~001	000
IPC037	(Not display)	000~001	000
IPC038	(Not display)	000~001	000
IPC039	(Not display)	000~001	000
IPC040	(Not display)	000~001	000
IPC041	(Not display)	000~001	000
IPC042	(Not display)	000~001	000
IPC043	(Not display)	000~001	000
IPC044	(Not display)	000~001	000

Item No.	Item	Variable range	Setting value
IPD001	(Not display)	000~0FF	040
IPD002	(Not display)	000~0FF	000
IPD003	(Not display)	000~0FF	000
IPD004	(Not display)	000~007	000
IPD005	(Not display)	000~0FF	024
IPD006	(Not display)	000~007	003
IPD007	(Not display)	000~0FF	036
IPD008	(Not display)	000~001	001
IPD009	(Not display)	000~015	003
IPD010	(Not display)	000~0FF	036
IPD011	(Not display)	000~015	005
IPD012	(Not display)	000~0FF	050
IPD013	(Not display)	000~007	000
IPD014	(Not display)	000~007	000
IPD015	(Not display)	000~001	000
IPD016	(Not display)	000~001	000
IPD017	(Not display)	000~0FF	000
IPD018	(Not display)	000~007	000
IPD019	(Not display)	000~0FF	01D
IPD020	(Not display)	000~007	002
IPD021	(Not display)	000~0FF	0E6
IPD022	(Not display)	000~001	001
IPD023	(Not display)	000~015	001
IPD024	(Not display)	000~0FF	00E
IPD025	(Not display)	000~015	004
IPD026	(Not display)	000~0FF	0C0

Item No.	Item	Variable range	Setting value
IPE001	(Not display)	000~0FF	001
IPE002	(Not display)	000~0FF	002
IPE003	(Not display)	000~0FF	001
IPE004	(Not display)	000~0FF	002
IPE005	(Not display)	000~0FF	001
IPE006	(Not display)	000~0FF	002
IPE007	(Not display)	000~0FF	001
IPE008	(Not display)	000~0FF	002
IPE009	(Not display)	080~07F	005
IPE010	(Not display)	080~07F	006
IPE011	(Not display)	080~07F	005
IPE012	(Not display)	080~07F	005
IPE013	(Not display)	080~07F	0FB
IPE014	(Not display)	080~07F	005
IPE015	(Not display)	000~015	001

4.7.8 [0.HDMI] \*All the values are fixed values.

4.7.8 [U.HDMI] All the values are fixed values.			
Item No.	Item	Variable range	Setting value
HDM001	(Not display)	000~001	000
HDM002	(Not display)	000~001	000
HDM003	(Not display)	000~001	000
HDM004	(Not display)	000~001	000
HDM005	(Not display)	000~001	000
HDM006	(Not display)	000~003	003
HDM007	(Not display)	000~001	000
HDM008	(Not display)	000~001	000
HDM009	(Not display)	000~001	000
HDM010	(Not display)	000~001	000
HDM011	(Not display)	000~001	000
HDM012	(Not display)	000~001	000
HDM013	(Not display)	000~001	001
HDM014	(Not display)	000~001	000
HDM015	(Not display)	000~001	000
HDM016	(Not display)	000~255	000
HDM017	(Not display)	000~255	000
HDM018	(Not display)	000~255	000
HDM019	(Not display)	000~001	001
HDM020	(Not display)	000~255	000
HDM021	(Not display)	000~007	002
HDM022	(Not display)	000~063	006
HDM023	(Not display)	000~063	006
HDM024	(Not display)	000~063	006
HDM025	(Not display)	000~001	000
HDM026	(Not display)	000~003	000
HDM027	(Not display)	000~255	212
HDM028	(Not display)	000~003	000
HDM029	(Not display)	000~255	192
HDM030	(Not display)	000~003	000
HDM031	(Not display)	000~255	212
HDM032	(Not display)	000~003	000
HDM033	(Not display)	000~255	191
HDM034	(Not display)	000~003	001
HDM035	(Not display)	000~255	000
HDM036	(Not display)	000~255	026
HDM037	(Not display)	000~255	000
HDM038	(Not display)	000~255	000
HDM040	(Not display)	000~001	001
HDM040 HDM041	(Not display)	000~001 000~001	001
HDM041	(Not display) (Not display)	000~001	000
HDM042	(Not display)	000~255	001
HDM044	(Not display)	000~007	000
HDM045		000~003	000
ПDIVIU45	(Not display)	000~003	JUU

Item No.	Item	Variable range	Setting value
HDM046	(Not display)	000~001	001
HDM047	(Not display)	000~015	007
HDM048	(Not display)	000~255	000
HDM049	(Not display)	000~255	000
HDM050	(Not display)	000~015	000
HDM051	(Not display)	000~001	000
HDM052	(Not display)	000~001	000
HDM053	(Not display)	000~001	000
HDM054	(Not display)	000~001	000
HDM055	(Not display)	000~001	000
HDM056	(Not display)	000~001	000
HDM057	(Not display)	000~001	001
HDM058	(Not display)	000~001	000
HDM059	(Not display)	000~001	001
HDM060	(Not display)	000~001	000
HDM061	(Not display)	000~001	001
HDM062	(Not display)	000~001	001
HDM063	(Not display)	000~001	000
HDM064	(Not display)	000~001	000
HDM065	(Not display)	000~001	001
HDM066	(Not display)	000~001	000
HDM067	(Not display)	000~001	001
HDM068	(Not display)	000~031	005
HDM069	(Not display)	000~001	000
HDM070	(Not display)	000~001	001
HDM071	(Not display)	000~001	000
HDM072	(Not display)	000~001	000
HDM073	(Not display)	000~001	000
HDM074	(Not display)	000~031	800
HDM075	(Not display)	000~001	001
HDM076	(Not display)	000~001	001
HDM077	(Not display)	000~001	001
HDM078	(Not display)	000~001	001
HDM079	(Not display)	000~001	001
HDM080	(Not display)	000~001	001

Item No.	Item	Variable range	Setting value
RHD001	(Not display)		000
RHD002	(Not display)		000
RHD003	(Not display)		000
RHD004	(Not display)		000
RHD005	(Not display)		000
RHD006	(Not display)		000
RHD007	(Not display)		000
RHD008	(Not display)		000

Item No.	Item	Variable range	Setting value
RHD009	(Not display)		000
RHD010	(Not display)		000
RHD011	(Not display)		000
RHD012	(Not display)		000
RHD013	(Not display)		000
RHD014	(Not display)		000
RHD015	(Not display)		000
RHD016	(Not display)		000
RHD017	(Not display)		000
RHD018	(Not display)		000
RHD019	(Not display)		000
RHD020	(Not display)		000
RHD021	(Not display)		000
RHD022	(Not display)		000
RHD023	(Not display)		000
RHD024	(Not display)		000
RHD025	(Not display)		000
RHD026	(Not display)		000
RHD027	(Not display)		000
RHD028	(Not display)		000
RHD029	(Not display)		000
RHD030	(Not display)		000
RHD031	(Not display)		000
RHD032	(Not display)		000
RHD033	(Not display)		000
RHD034	(Not display)		000
RHD035	(Not display)		000
RHD036	(Not display)		000
RHD037	(Not display)		000
RHD038	(Not display)		000
RHD039	(Not display)		000
RHD040	(Not display)		000
RHD041	(Not display)		000
RHD042	(Not display)		000
RHD043	(Not display)		000
RHD044	(Not display)		000
RHD045	(Not display)		000
RHD046	(Not display)		000
RHD047	(Not display)		000
RHD048	(Not display)		000
RHD049	(Not display)		000
RHD050	(Not display)		000
RHD051	(Not display)		000
RHD052	(Not display)		000
RHD053	(Not display)		000

Item No.	Item	m Variable range	
RHD054	(Not display)		value 000
RHD055	(Not display)		000
RHD056	(Not display)		000
RHD057	(Not display)		000
RHD058	(Not display)		000
RHD059	(Not display)		000
RHD060	(Not display)		000
RHD061	(Not display)		000
RHD062	(Not display)		000
RHD063	(Not display)		000
RHD064	(Not display)		000
RHD065	(Not display)		000
RHD066	(Not display)		000
RHD067	(Not display)		000
RHD068	(Not display)		000
RHD069	(Not display)		000
RHD070	(Not display)		000
RHD071	(Not display)		000
RHD072	(Not display)		000
RHD073	(Not display)		000
RHD074	(Not display)		000
RHD075	(Not display)		000
RHD076	(Not display)		000
RHD077	(Not display)		000
RHD078	(Not display)		000
RHD079	(Not display)		000
RHD080	(Not display)		000
RHD081	(Not display)		000
RHD082	(Not display)		000
RHD083	(Not display)		000
RHD084	(Not display)		000
RHD085	(Not display)		000
RHD086	(Not display)		000
RHD087	(Not display)		000
RHD088	(Not display)		000
RHD089	(Not display)		000
RHD090	(Not display)		000
RHD091	(Not display)		000
RHD092	(Not display)		000
RHD093	(Not display)		000
RHD094	(Not display)		000
RHD095	(Not display)		000
RHD096	(Not display)		000
RHD097	(Not display)		000
RHD098	(Not display)		000

Item No.	Item Variable range		Setting value
RHD009	(Not display)		000
RHD100	(Not display)		000
RHD101	(Not display)		000
RHD102	(Not display)		000
RHD103	(Not display)		000
RHD104	(Not display)		000
RHD105	(Not display)		000
RHD106	(Not display)		000
RHD107	(Not display)		000
RHD108	(Not display)		000
RHD109	(Not display)		000
RHD110	(Not display)		000
RHD111	(Not display)		000
RHD112	(Not display)		000
RHD113	(Not display)		000
RHD114	(Not display)		000
RHD115	(Not display)		000
RHD116	(Not display)		000
RHD117	(Not display)		000
RHD118	(Not display)		000
RHD119	(Not display)		000
RHD120	(Not display)		000
RHD121	(Not display)		000
RHD122	(Not display)		000
RHD123	(Not display)		000
RHD124	(Not display)		000
RHD125	(Not display)		000
RHD126	(Not display)		000
RHD127	(Not display)		000
RHD128	(Not display)		000
RHD129	(Not display)		000
RHD130	(Not display)		000
RHD131	(Not display)		000
RHD132	(Not display)		000
RHD133	(Not display)		000
RHD134	(Not display)		000
RHD135	(Not display)		000
RHD136	(Not display) (Not display)		000
RHD137 RHD138	(Not display)		000
RHD138	(Not display)		000
RHD139	(Not display)		000
RHD141	(Not display)		000
RHD141	(Not display)		000
RHD143	(Not display)		000
1/11/143	(INOL UISPIAY)		000

Item No.	Item	Variable range	Setting value
RHD144	(Not display)		000
RHD145	(Not display)		000
RHD146	(Not display)		000
RHD147	(Not display)		000
RHD148	(Not display)		000
RHD149	(Not display)		000
RHD150	(Not display)		000
RHD151	(Not display)		000
RHD152	(Not display)		000
RHD153	(Not display)		000
RHD154	(Not display)		000
RHD155	(Not display)		000
RHD156	(Not display)		000
RHD157	(Not display)		000
RHD158	(Not display)		000
RHD159	(Not display)		000
RHD160	(Not display)		000
RHD161	(Not display)		000
RHD162	(Not display)		000
RHD163	(Not display)		000
RHD164	(Not display)		000
RHD165	(Not display)		000
RHD166	(Not display)		000
RHD167	(Not display)		000
RHD168	(Not display)		000
RHD169	(Not display)		000
RHD170	(Not display)		000

## 4.8 ADJUSTMENT PROCEDURE

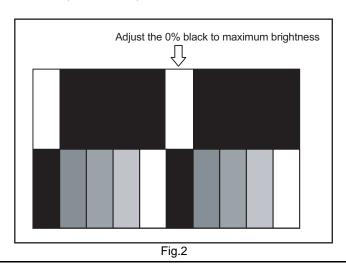
## 4.8.1 DISPLAY UNIT

Item	Mesuring instrument	Test point	Adjustment part	Description
PDP POWER SUPPLY VOLTAGE	DC voltmeter	T-VA T-VSCA T-VS T-VE T-VSET [SMPS PWB]	VA VR VSCAN VR VS VR VE VR VSET VR [SMPS PWB]	<ul> <li>After turning the power on, confirm that "NO SYNC" is displayed.</li> <li>Start making adjustment five minutes or later after turning the power on.</li> <li>(1) Connect the DC voltmeter to test points T-VA, T-VSCA, T-VS, T-VE, and T-VSET, and GND on SMPS PWB.</li> <li>(2) Adjust VA VR, VSCAN VR, VS VR, VE VR, and VSET VR respectively so that their voltage becomes the value in the voltage label attached to the panel.</li> </ul>
V5D VG ** Vscan ** Vs ** Vset ** Ve ** Va			T-VS —  T-VSCN— T-VCC —  T-VA — T-VSET —	SMPS PWB VA : Test point

#### 4.8.2 RECEIVER UNIT

Item	Mesuring instrument	Test point	Adjustment part
BLACK LEVEL	Remote control unit  Signal generator		[8.PP] ADM013: (NO DISPLAY) (G offset)  [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)
			S84: TEST(TEST MODE)

Item No.	Setting value	Adjustment item	
F46	090	Output level upon detection	
F47	016	Minimum value upon detection	
F48	016	Maximum value upon detection	

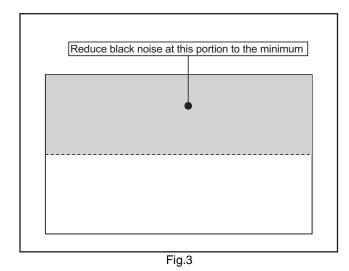


(1) Input NTSC signal that shows brightness radation portion with 0% black.

- (2) Set "VIDEO STATUS" to STANDARD.
- (3) Set "ASPECT" to FULL.
- (4) Select "COLOR TEMPERATURE" and set to "LOW".
- (5) Select "1.PICTURE/SOUND" from the SERVICE MODE.
- (6) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE.
- (7) Set < S13 > (R DRIVE), < S15 > (G DRIVE) and < S17 > (B DRIVE) to "255".
- (8) Set < S19 > (R CUTOFF), < S21 > (G CUTOFF) and < S23 > (B CUTOFF) to "128".
- (9) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection) and < F48 > ( Maximum value upon detection)to values as shown in the left table.
- (10) Set < S84 >(Test Mode) to "003".
- (11) Press the [MUTING] key to memorize the set values.
- (12) Select "8.PP" from the SERVICE MODE.
- (13) Adjust < ADM013 > (G offset) to set the 0% black part on the upper half of the screen to maximum brightness (Fig.2).
- (14) Add reference offset value "0" to the < ADM013 > (G offset) value.
- (15) Press the [MUTING] key to memorize the set values.
- (16) Select "1.PICTURE/SOUND" from the SERVICE MODE.
- (17) Return < S84 > (TEST MODE) to "000".
- (18) Check the black level. Perform the "BLACK LEVEL adjustment" again if the adjusted value is out of alignment.
- (19) Set < F44 > (Picture control) to "001" to cancel Y ADJUST MAX MODE.
- (20) Press the [MUTING] key to memorize the set values.

Item	Mesuring instrument	Test point	Adjustment part
A-D CONVERTER GAIN	instrument  Remote control unit  Signal generator		[8.PP] ADM010: (NO DISPLAY) (G GAIN)  [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon Detection) F48: LMT TOP (Maximum value upon
			detection)

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	220	Minimum value upon detection
F48	220	Maximum value upon detection

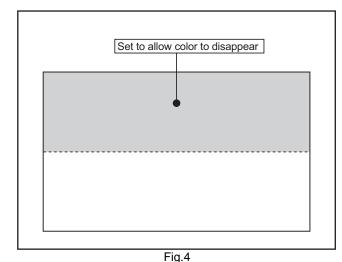


- (1) Input NTSC all-white signal.
- (2) Set "VIDEO STATUS" to STANDARD.
- (3) Set "ASPECT" to FULL.
- (4) Select "COLOR TEMPERATURE" and set to "LOW".

- (5) Select "1.PICTURE/SOUND" from the SERVICE MODE.
- (6) Set < S13 > (R DRIVE), < S15 > (G DRIVE) and < S17 > (B DRIVE) to "255".
- (7) Set < S19 > (R CUTOFF), < S21 > (G CUTOFF) and < S23 > (B CUTOFF) to "128".
- (8) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to Set Y ADJUST MAX MODE.
- (9) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection) and < F48 > (Maximum value upon detection) to values as shown in the left table.
- (10) Press the [MUTING] key to memorize the set values.
- (11) Select "8.PP" from the SERVICE MODE.
- (12) Adjust < ADM010 > (G GAIN) to set the window screen on the upper half of the screen to maximum brightness. (Fig.3)
- (13) Press the [MUTING] key to memorize the set values.
- (14) Check the black level. Perform the "BLACK LEVEL Adjustment" again if the adjusted value is out of alignment.
- (15) Select "1.PICTURE/SOUND" from the SERVICE MODE.
- (16) Set < F44 > (Picture control) to "000" to set Y ADJUST MAX MODE.
- (17) Press the [MUTING] key to memorize the set values.

Item	Mesuring instrument	Test point	Adjustment part
A-D CONVERTER OFFSET	Remote control unit Signal generator		[8.PP] ADM012: (NO DISPLAY) (R OFFSET) ADM014: (NO DISPLAY) (B OFFSET)  [1. PICTURE/SOUND]
			S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF)
			F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)

Item No.	Setting value	Adjustment item		
F46	090	Output level upon detection		
F47	000	Minimum value upon detection		
F48	000	Maximum value upon detection		

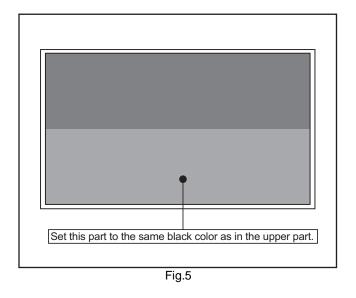


(1) Input NTSC component 30% all-white signal.

- (2) Set "VIDEO STATUS" to STANDARD.
- (3) Set "ASPECT" to FULL.
- (4) Select "COLOR TEMPERATURE" and set to "LOW".
- (5) Select "1.PICTURE/SOUND" from the SERVICE MODE.
- (6) Set < S13 > (R DRIVE), < S15 > (G DRIVE) and < S17 > (B DRIVE) to "255".
- (7) Set < S19 > (R CUTOFF), < S21 > (G CUTOFF) and < S23 > (B CUTOFF) to "128".
- (8) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "003" to set the chrominance adjustment zero mode.
- (9) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection) and < F48 > (Maximum value upon detection) to values as shown in the left table.
- (10) Press the [MUTING] key to memorize the set values.
- (11) Select "8.PP" from the SERVICE MODE.
- (12) Change the value of < ADM014 > (B OFFSET) from the initial value in the range of 5 to set the screen magenta.
- (13) Adjust < ADM012 > (R OFFSET) to change the screen from magenta to blue. And take a note of the value.
- (14) Change the value of < ADM012 > (R OFFSET) from the value above at the range of 5 to set the adjustment screen magenta.
- (15) Adjust < ADM014 > (B OFFSET) to change the screen from magenta to red. And take a note of the
- (16) Return the value of < ADM012 > (R OFFSET) to the value that has been taken note of in the procedure 13.
- (17) Press the [MUTING] key to memorize the set values.
- (18) Set "MULTI-SCREEN" to "SPLIT" mode.
- (19) Input monochrome signal such as cross hatch both to the right and the left screen.
- (20) Set < ADM012 > (R OFFSET) and < ADM014 > (B OFFSET) to the same value as in single-screen mode.
- (21) Press the [MUTING] key to memorize the set values
- (22) Input 1080i component 30% all-white signal.
- (23) Repeat steps (6) ~ (17).
- (24) Set < F44 > (Picture control) to "000" to cancel the chrominance adjustment zero mode.
- (25) Press the [MUTING] key to memorize the set values

Item	Mesuring instrument	Test point	Adjustment part
NTSC BRIGHTNESS	Remote control unit Signal generator		[2. YC SEP] YCM131: (NO DISPLAY) (BRIGHTNESS)  [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	016	Minimum value upon detection
F48	016	Maximum value upon detection

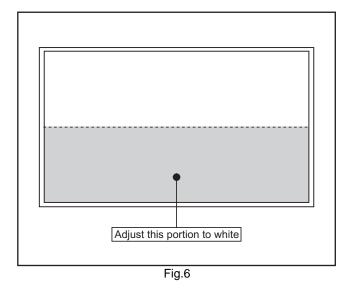


- (1) Input NTSC all-black signal.
- (2) Set "VIDEO STATUS" to STANDARD.
- (3) Set "ASPECT" to FULL.
- (4) Select "COLOR TEMPERATURE" to LOW.
- (5) Select "1.PICTURE/SOUND" from the SERVICE MODE.

- (6) Set < S13 > (R DRIVE), < S15 > (G DRIVE) and < S17 > (B DRIVE) to "255".
- (7) Set < S19 > (R CUTOFF), < S21 > (G CUTOFF) and < S23 > (B CUTOFF) to "128".
- (8) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y DJUST MAX MODE.
- (9) Set < F46 >(Output level upon detection), < F47 > (Minimum value upon detection) and < F48 > (Maximum value upon detection) to values as shown in the left table.
- (10) Press the [MUTING] key to memorize the set values.
- (11) Select "2. YC SEP" from the SERVICE MODE.
- (12) Adjust < YCM131 > (BRIGHTNESS) to set the lower half of the screen to the same black color as in the upper part. (Fig.5)
- (13) Press the [MUTING] key to memorize the set values.
- (14) Select "1.PICTURE/SOUND" from the SERVICE MODE.
- (15) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE.
- (16) Press the [MUTING] key to memorize the set values.

Item	Mesuring instrument	Test point	Adjustment part	
NTSC CONTRAST	Remote control unit		[2. YC SEP] YCM132: (NO DISPLAY)	
	Signal generator		(CONTRAST)  [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection)	
			F47: LMT BTM (Minimum value upon detection)	
			F48: LMT TOP (Maximum value upon detection)	

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	165	Minimum value upon detection
F48	165	Maximum value upon detection

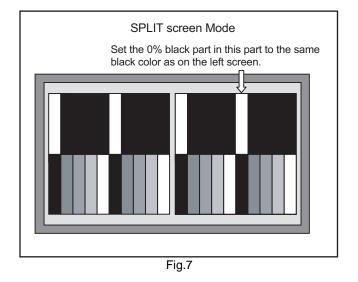


- (1) Input NTSC composite all-white signal.
- (2) Set "VIDEO STATUS" to STANDARD.
- (3) Set "ASPECT" to FULL.
- (4) Select "COLOR TEMPERATURE" to LOW.
- (5) Select "1.PICTURE/SOUND" from the SERVICE MODE.

- (6) Set < S13 > (R DRIVE), < S15 > (G DRIVE) and < S17 > (B DRIVE) to "255".
- (7) Set < S19 > (R CUTOFF), < S21 > (G CUTOFF) and < S23 > (B CUTOFF) to "128".
- (8) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE.
- (9) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection) and < F48 > (Maximum value upon detection) to values as shown in the left table.
- (10) Press the [MUTING] key to memorize the set values.
- (11) Select "2. YC SEP" from the SERVICE MODE.
- (12) Adjust < YCM132 > (CONTRAST) to set the white portion on the lower half of the screen to white color. (Fig.6)
- (13) Press the [MUTING] key to memorize the set values.
- (14) Select "1.PICTURE/SOUND" from the SERVICE MODE.
- (15) Set < F44 > (Picture control) to "000" to cancel Y ADJUST MAX MODE.
- (16) Press the [MUTING] key to memorize the set values.

Item	Mesuring instrument	Test point	Adjustment part
SUB-SCREEN BLACK LEVEL	Remote control unit Signal generator		[8. PP] ADM013: (NO DISPLAY) (G offset)  [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF) S23: CUTB (B CUTOFF) F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)

	Item No.	Setting value	Adjustment item
Ī	F46	090	Output level upon detection
Ī	F47	016	Minimum value upon detection
	F48	016	Maximum value upon detection

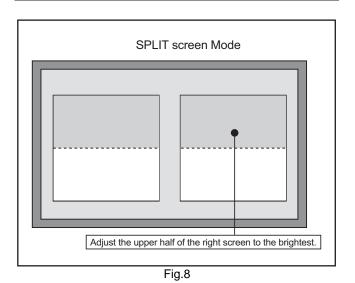


- (1) Set "VIDEO STATUS" to STANDARD.
- (2) Set "ASPECT" to FULL.
- (3) Select "COLOR TEMPERATURE" to LOW.
- (4) Set to SPLIT screen mode.
- (5) Input NTSC signal that shows brightness gradation portion with 0% black on both the right and the left screen.

- (6) Select "1.PICTURE/SOUND" from the SERVICE MODE for the right screen.
- (7) Set < S13 > (R DRIVE), < S15 > (G DRIVE) and < S17 > (B DRIVE) to "255."
- (8) Set < S19 > (R CUTOFF), < S21 > (G CUTOFF) and < S23 > (B CUTOFF) to "125".
- (9) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX MODE.
- (10) Set < F46 > (Output level upon detection), < F47 > (Minimum value upon detection) and < F48 > (Maximum value upon detection) to values as shown in the left table.
- (11) Press the [MUTING] key to memorize the set values.
- (12) Select "8. PP" from the SERVICE MODE.
- (13) Adjust < ADM013 > (G offset) to set the 0% black part on the right half of the screen to the same black color as on the left. (Fig.7)
- (14) Press the [MUTING] key to memorize the set values.
- (15) Select "1.PICTURE/SOUND" from the SERVICE MODE.
- (16) Set < F44 > (Picture control) to "000".
- (17) Press the [MUTING] key to memorize the set values

Item	Mesuring instrument	Test point	Adjustment part
SUB-SCREEN A-D CONVERTER GAIN	Remote control unit Signal generator		[8. PP] ADM010: (NO DISPLAY) (G GAIN)  [1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF)
			S23: CUTB (B CUTOFF)  F44: (NO DISPLAY) (Picture control) F45: (NO DISPLAY) (Picture control mode sw) F46: OUT LV. (Output level upon detection) F47: LMT BTM (Minimum value upon detection) F48: LMT TOP (Maximum value upon detection)

Item No.	Setting value	Adjustment item
F46	090	Output level upon detection
F47	168	Minimum value upon detection
F48	168	Maximum value upon detection



- (1) Set "VIDEO STATUS" to STANDARD.
- (2) Set "ASPECT" to FULL.
- (3) Select "COLOR TEMPERATURE" to LOW.
- (4) Set SPLIT screen mode.
- (5) Input NTSC 100% white signal to both right and left screen.

- (6) Select "1. PICTURE/SOUND" from the SERVICE MODE for the right screen.
- (7) Set < S13 > (R DRIVE), < S15 > (G DRIVE) and < S17 > (B DRIVE) to "255".
- (8) Set < S19 > (R CUTOFF), < S21 > (G CUTOFF) and < S23 > (B CUTOFF) to "128".
- (9) Set < F44 > (Picture control) to "001" and < F45 > (Picture control mode sw) to "000" to set Y ADJUST MAX mode.
- (10) Set < F46 >(Output level upon detection), < F47 > (Minimum value upon detection) and < F48 > (Maximum value upon detection) to values as shown in the left table.
- (11) Press the [MUTING] key to memorize the set values.
- (12) Select "8. PP" from the SERVICE MODE.
- (13) Adjust < ADM010 > (G offset) so that upper right part of the screen is the brightest. (Fig.8)
- (14) Press the [MUTING] key to memorize the set values.
- (15) Check the black level adjusted in BLACK LEVEL adjustment. Adjust the black level again if it is not proper.
- (16) Select "1.PICTURE/SOUND" from the SERVICE MODE.
- (17) Set < F44 > (Picture control) to "000" to set Y ADJUST MAX MODE.
- (18) Press the [MUTING] key to memorize the set values.

ltem	Mesuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (HIGHLIGHT)	Remote control unit Signal generator		[1. PICTURE/SOUND] S13: RDRV (R DRIVE) S15: GDRV (G DRIVE) S17: BDRV (B DRIVE) S19: CUTR (R CUTOFF) S21: CUTG (G CUTOFF)	<ul> <li>(1) Input NTSC 75% all-white signal.</li> <li>(2) Set "VIDEO STATUS" to STANDARD.</li> <li>(3) Set "ASPECT" to FULL.</li> <li>(4) Select "COLOR TEMPERATURE" to LOW.</li> <li>(5) Select "1.PICTURE/SOUND" from the SERVICE MODE.</li> <li>(6) Fix one of &lt; S13 &gt;(R DRIVE), &lt; S15 &gt;(G DRIVE), or&lt; S17 &gt;(B DRIVE). Adjust two that are not fixed so that the all-white screen is equally white throughout. Set one of them to "255".</li> <li>(7) Check that white balance is properly tracked from lowlight to highlight.</li> <li>(8) Press the [MUTING] key to memorize the set values.</li> <li>(9) Input 525i 75% all-white signal.</li> <li>(10) Repeat steps (5) ~ (8).</li> <li>(11) Input HD (1125i) all-white signal.</li> <li>(12) Repeat steps (5) ~ (8).</li> </ul>
OSD OFFSET	Adjust so that backg same color as its su		[6. DD/CM] DDT01: (NO DISPLAY) (Picture control mode sw)  [1. PICTURE/SOUND] F49: (NO DISPLAY) (OSD G offset) F50: (NO DISPLAY) (OSD B OFFSET) F51: (NO DISPLAY) (OSD R OFFSET)	<ul> <li>(1) Input a picture whose signal (synchronization state) is stable.</li> <li>(2) Set "VIDEO STATUS" to STANDARD.</li> <li>(3) Set "ASPECT" to FULL.</li> <li>(4) Select "COLOR TEMPERATURE" to LOW.</li> <li>(5) Select "DD/CM" from the SERVICE MODE.</li> <li>(6) Set &lt; DDT01 &gt; (Picture control mode sw) to "001" to set OSD adjustment mode.</li> <li>(7) Select "1.PICTURE/SOUND" from the SERVICE MODE.</li> <li>(8) Adjust &lt; F49 &gt; (OSD G offset), &lt; F50 &gt; (OSD B OFFSET), and &lt; F51 &gt; (OSD R OFFSET) so that OSD background is in the same color as its surroundings. When the background is in green, fix &lt; F49 &gt; (OSD G offset) and adjust the other two. When the background is in blue, fix &lt; F50 &gt; (OSD B OFFSET) and adjust the other two. When the background is in red, fix &lt; F51 &gt; (OSD R OFFSET) and adjust the other two.</li> <li>(9) Press the [MUTING] key to memorize the set values.</li> <li>(10) Display the MODE and check that there is no noise such as horizontal noise. If noise is detected, lower &lt; F49 &gt; (OSD G offset), &lt; F50 &gt; (OSD B OFFSET), and &lt; F51 &gt; (OSD R OFFSET) by one level so that no noise is detected.</li> <li>(11) Select "DD/CM" from the SERVICE MODE.</li> <li>(12) Set &lt; DDT01 &gt; (Picture control mode sw) to "000" to cancel OSD adjustment mode.</li> </ul>

## SECTION 5 TROUBLESHOOTING

#### 5.1 SELF-DIAGNOSIS FEATURE

#### **5.1.1 OUTLINE**

This unit comes with the "Self-diagnosis" feature, which checks the operational state of the circuit and displays/saves it during failure. Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I<sup>2</sup>C bus and the various control lines connected to the main microcomputer.

## 5.1.2 HOW TO ENTER THE SELF-DIAGNOSIS DISPLAY MODE

- (1) Press the [SLEEP TIMER] key and set it to 30 minutes.
- (2) Press the [VIDEO STATUS] key and [DISPLY] key simultaneously, then enter the TEST MODE.
- (3) Press the [4] key (Self-diagnosis Display mode) before the service mode screen disappears.
- (4) Press the [MTS] key to enter Page 2 of the Self-diagnosis Display mode.
  - \*Use the [MTS] key to toggle between Page 1 and Page 2.

#### NOTE:

The remote control unit attached to this set does not contain the [MTS] key. To perform the procedure (4), use a remote control unit that contains the [MTS] key.

## 5.1.3 HOW TO EXIT THE SELF-DIAGNOSIS DISPLAY MODE To Save Failure History:

Turn off the power by unplugging the AC power cord plug when in the self-diagnosis display mode.

## To Clear (Reset) Failure History:

Turn off the power by pressing the [POWER] key on the remote control unit when in the self-diagnosis display mode.

## 5.1.4 FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

### NOTE:

Only SYNC (with/without sync signals) will be neither counted nor stored.

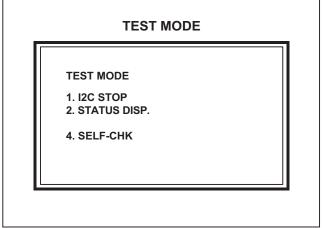


Fig.1

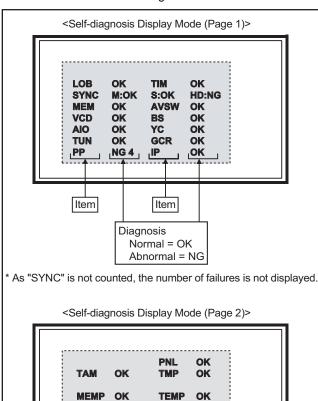


Fig.2

DDP

AD

OK

OK

DDT

**FAN** 

DVI

OK

**OK** 

OK

### 5.1.5 POINTS TO NOTE WHEN USING THE SELF-DIAGNOSIS FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be iagnosed as "Abnormal" and displayed and counted as "NG".

- (1) Temporary defective transmissions across circuits due to pulse interruptions
- (2) Misalignment in the on/off timing of power for I<sup>2</sup>C bus (VCC) when turning on/off the main power.

Diagnosis may be impeded if a large number of items are displayed as "NG". As such, start self-diagnosis check only after 3 seconds in the case of receivers and 5 seconds in the case of panels upon turning on the power. If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis reults.

## 5.1.6 DETAILS

Self-diagnosis is performed for the following items:

## PAGE 1

Item	Display	Description of detection	Diagnosis signal (line)	Means of detection	Unit
X-RAY PROTECTION	XRAY	Not used (Only display)			
B1 OVERCURRENT PROTECTION	OCP	Not used (Only display)			
LOW B LINE SHORT PROTECTION	LOB	Was Low B line short protector activated? No. of times short circuit protection is triggered (9V/5V)	9V/5V	Detection starts 3 seconds upon power on Turns off power if NG is detected within 200ms	Receiver
TIMER	TIM	Did power supply frequency fluctuated from: 50Hz → 60Hz 60Hz → 50Hz Number of counts	AC	Regularly detects power supply frequency by AC pulse counts and monitors frequency fluctuations other than instances immediately after reset	Receiver
WITH / WITHOUT SYNC Are there synchronized signals? HD: Color difference synchronized signals (Yes / No) M: Main Synchronized signals (Yes / No) S: Sub-synchronized signals (Yes / No)		SDA	Checks whether there are synchronized signal in video signal	Receiver	
MEMORY  MEM Is ACK returned during I <sup>2</sup> C transmission? [IC1703]		SDA	Monitors upon every I <sup>2</sup> C transmission and counts if ACK is not returned	Receiver	
AV SWITCH	AVSW	Same as above [IC1501]	SDA	Same as above	Receiver
VIDEO CHROMA	VCD	Same as above [IC301]	SDA	Same as above	Display
AUDIO PROCESSING	AIO	Same as above [IC6521]	SDA	Same as above	Display
3D Y/C SEPARATION	YC	Same as above [IC3001]	SDA	Same as above	Receiver
RF TUNER	TUN	Same as above [IC1101]	SDA	Same as above	Receiver
GHOST GCR Not used REDUCTION					
MULTI-SCREEN PROCESSING	PP	Is ACK returned during I <sup>2</sup> C transmission? [IC1703]	SDA	Monitors upon every I <sup>2</sup> C transmission and counts if ACK is not returned	Receiver
DIST PROCESSING	IP	Same as above [IC201]	SDA	Same as above	Receiver
HDMI	HDMI	Not used (Only display)			

#### • PAGE 2

Item	Display	Description of detection	Diagnosis signal (line)	Means of detection	Unit
PANEL TEMPERATURE	PRO	Is temperature of thermostat in PDP proper?	SDA	Detection starts 5 seconds upon power on Performs detection every 16ms and turns off power if NG lasts for 500ms	Display
PANEL TRANSMISSION	PNL	Is panel protection activated properly?	SDA	Monitors upon every I <sup>2</sup> C transmission and counts if ACK is not returned	Display
TERMINAL ALARM	TAM	Is panel protection activated properly?	SDA	Detection starts 5 seconds upon power on Performs detection every 16ms and turns off power if NG lasts for 500ms	Display
PANEL TEMPERATURE RISE	TMP	Is temperature in PDP proper?	SDA	Performs detection every 0.5 sec and turns off power if number of times temperature exceeds service setting beyond acceptable limit	Display
MEMORY	MEMP	Is ACK returned during I <sup>2</sup> C transmission? [IC1703]	SDA	Monitors upon every I <sup>2</sup> C transmission and counts if ACK is not returned	Display
INSIDE TEMP Is temperature in receiver proper?  TEMPERATURE [IC505]  OF A RECEIVER UNIT		SDA	Turns off power if temperature in receiver is 73°C Celsius or higher.	Receiver	
DEVICE DRIVE COLOR MANAGEMENT	DDT	Is ACK returned during I <sup>2</sup> C transmission? [IC401]	SDA	Monitors upon every I <sup>2</sup> C transmission and counts if ACK is not returned.	Receiver
DEVICE DRIVE COLOR MANAGEMENT	DDP	Same as above [IC401]	SDA	Same as above	Display
FAN STOP	FAN	Not used (Only display)	-	-	-
A-D CONVERTER	AD	Is ACK returned during I <sup>2</sup> C transmission? [IC501]	SDA	Monitors upon every I <sup>2</sup> C transmission and counts if ACK is not returned.	Receiver
DIGITAL INPUT PROCESS	DVI	Same as above [IC7701]	SDA	Same as above	Receiver

## 5.1.7 DISPLAY METHOD WHEN RASTER IS NOT AVAILABLE

When raster is not displayed due to failure of the set, the POWER LED light will flash to indicate the ailure mode. Trigger for forced shutdown of power is stored and displayed.

Trigger of error	Display	LED flash cycle of receiver unit	LED flash cycle of display unit
LOW B LINE SHORT PROTECTION	LOB	Every 2.0 secs	Red every 1.0 sec
PANEL	PRO	Every 1.0 sec	Green every 0.1 sec
OPERATION	ALM	Every 1.0 sec	Green every 1.0 sec
	TMP	Every 1.0 sec	Green every 2.0 sec

## < Details on Operation >

Power of TV will be turned off when NG is detected for "Panel Error" and "LOW B short Protection". "POWER LED" will start flashing immediately after power is turned off and power of tuner and panel cannot be turned on upon shutdown until the AC plugs are disconnected once and reconnected.

# JVC SERVICE & ENGINEERING COMPANY OF AMERICA DIVISION OF JVC AMERICAS CORP.

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# **SCHEMATIC DIAGRAMS**

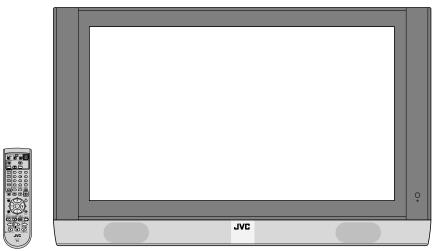
## PDP COLOR TELEVISION

## **PD-42WV74**/s

CD-ROM No.SML200311

**BASIC CHASSIS** 

SB3



VM-42WV74 [PLASMA DISPLAY UNIT]



## PD-42WV74/s

## STANDARD CIRCUIT DIAGRAM

## ■ NOTE ON USING CIRCUIT DIAGRAMS

#### 1.SAFETY

The components identified by the \( \triangle \) symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

## 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal : Colour bar signal

(2) Setting positions of

each knob/button and

variable resistor : Original setting position

when shipped

(3)Internal resistance of tester : DC 20k $\Omega$  /V

(4)Oscilloscope sweeping time : H ⇒ 20µs / div

:  $V \Rightarrow 5ms / div$ 

: Othters  $\Rightarrow$  Sweeping time is

specified

(5) Voltage values : All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

## 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

• In the PW board : R1209 → R209

## 4.INDICATIONS ON THE CIRCUIT DIAGRAM (1)Resistors

Resistance value

No unit  $\begin{array}{c} : \left[ \right. \Omega \left. \right] \\ \mathsf{K} \\ \mathsf{M} \\ \end{array} \quad \begin{array}{c} : \left[ \left. \mathsf{k} \right. \Omega \left. \right] \\ : \left[ \mathsf{M} \left. \Omega \right. \right] \\ \end{array}$ 

Rated allowable power

No indication : 1/16 [W]
Others : As specified

Type

No indication : Carbon resistor

OMR : Oxide metal film resistor

MFR : Metal film resistor
MPR : Metal plate resistor
UNFR : Uninflammable resistor

FR : Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

## (2)Capacitors

Capacitance value

 $\begin{array}{ll} \mbox{1 or higher} & : [pF] \\ \mbox{less than 1} & : [\mu F] \end{array}$ 

Withstand voltage

No indication : DC50[V]

Others : DC withstand voltage [V]
AC indicated : AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]: Capacitance value [ $\mu$ F]/withstand voltage[V]

Type

No indication : Ceramic capacitor

MM : Metalized mylar capacitor

PP : Polypropylene capacitor

MPP : Metalized polypropylene capacitor

MF : Metalized film capacitor TF : Thin film capacitor

BP : Bipolar electrolytic capacitor

TAN : Tantalum capacitor

(3)Coils

No unit : [µH]

Others : As specified

(4)Power Supply



\*Respective voltage values are indicated

#### (5)Test point



## (6)Connecting method



## (7)Ground symbol

### **5.NOTE FOR REPAIRING SERVICE**

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : ( $\bot$ ) side GND and the ISOLATED(NEUTRAL) : ( $\bot$ ) side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus ( oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time.
  If the above precaution is not respected, a fuse or any parts will be broken.
- Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

#### NOTE

Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

No.YA029 2-1

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DISPLAY SWITCH PWB CIRCUIT DIAGRAM	
DISPLAY LED CIRCUIT DIAGRAM	
TEMP SENSOR CIRCUIT DIAGRAM	
CHANNEL CHART(US)	2-73
CHANNEL CHART(CA)	2-74

2-2 No.YA029

## **USING P.W. BOARD**

## RECEIVER UNIT [TU-42WV74]

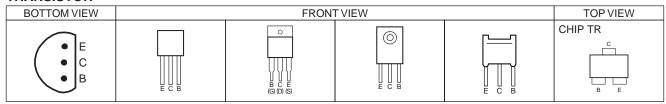
MAIN P.W. BOARD	LCA10273-14G	(SSB-1097A)
RECEIVER P.W. BOARD	LCA10306-02A	(SSB-0R385A)
RECEIVER POWER ASSY	LCA90180-01B	(SSB-9385A)
FRONT CONTROL P.W. BOARD	LCA90178-02A	(SSB-0L097A)
DIST RELAY P.W. BOARD	LCA10210-01E	(SSB-7065A)

## DISPLAY UNIT [VM-42WV74]

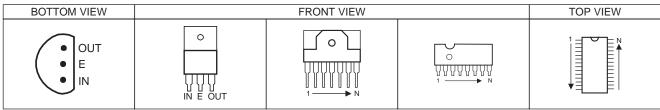
DISPLAY INTERFACE P.W. BOARD	LCA10288-07E	(SSB-7397A)
LINE FILTER P.W. BOARD	LCA90143-05B	(SSB-9297A)
AUDIO P.W. BOARD	LCA90177-05D	(SSB-6097A)
DISPLAY SWITCH P.W. BOARD	LCA90148-02B	(SSB-0L385A)
DISPLAY LED P.W. BOARD	LCA90175-03B	(SSB-0L297A)
TEMP SENSOR P.W. BOARD	LCA90146-01B	(SSB-8381A)

## **SEMICONDUCTOR SHAPES**

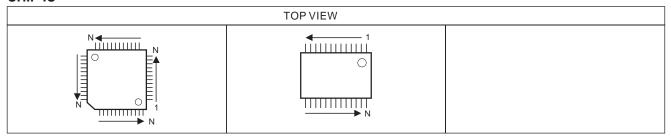
## **TRANSISTOR**



## IC



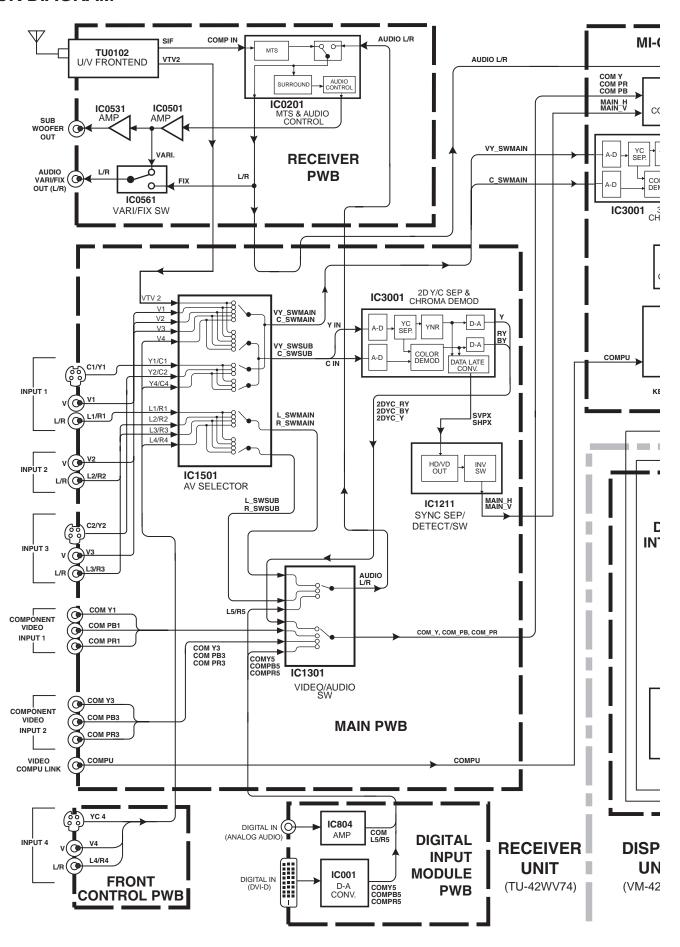
## **CHIP IC**



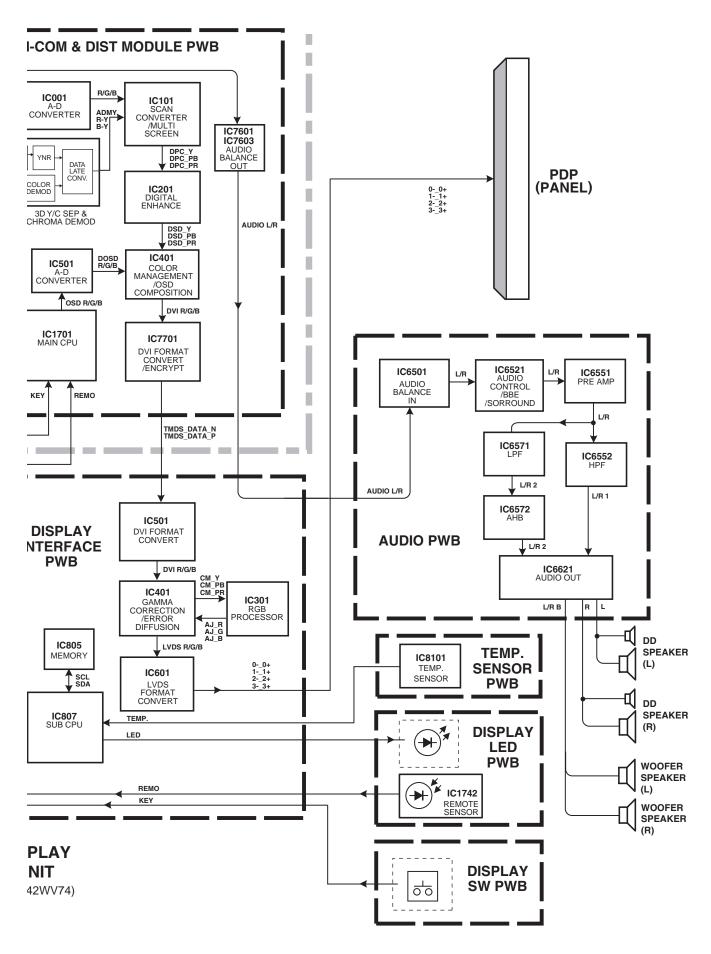
2-3 No.YA029

No.YA029 2-4

## **BLOCK DIAGRAM**

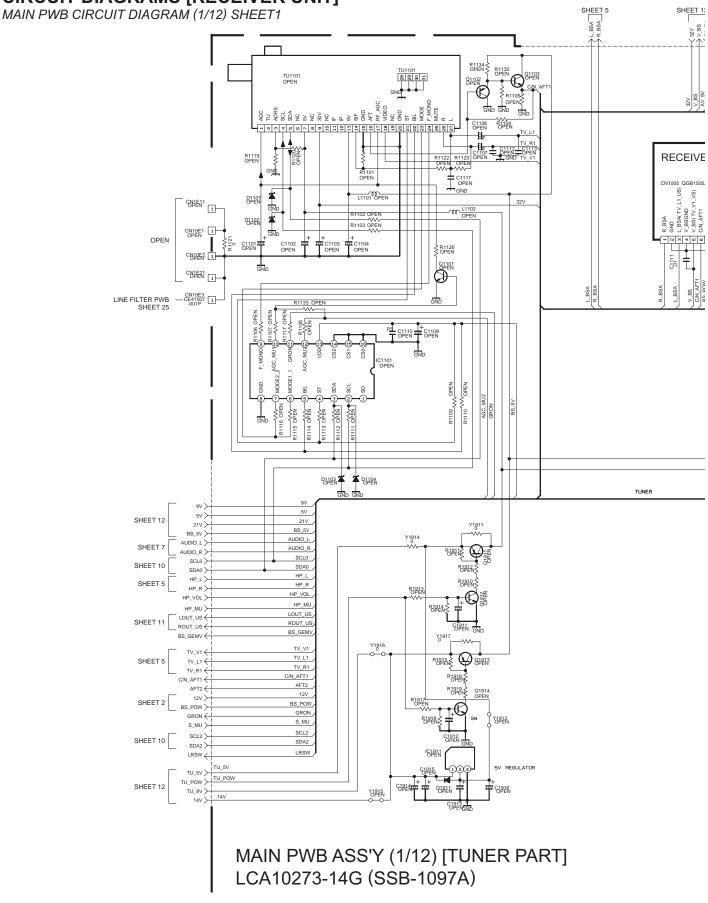


2-5 No.YA029

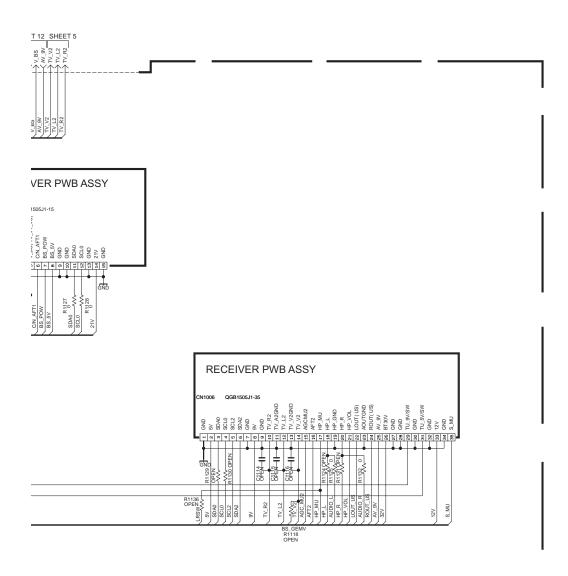


No.YA029 2-6

## **CIRCUIT DIAGRAMS [RECEIVER UNIT]**

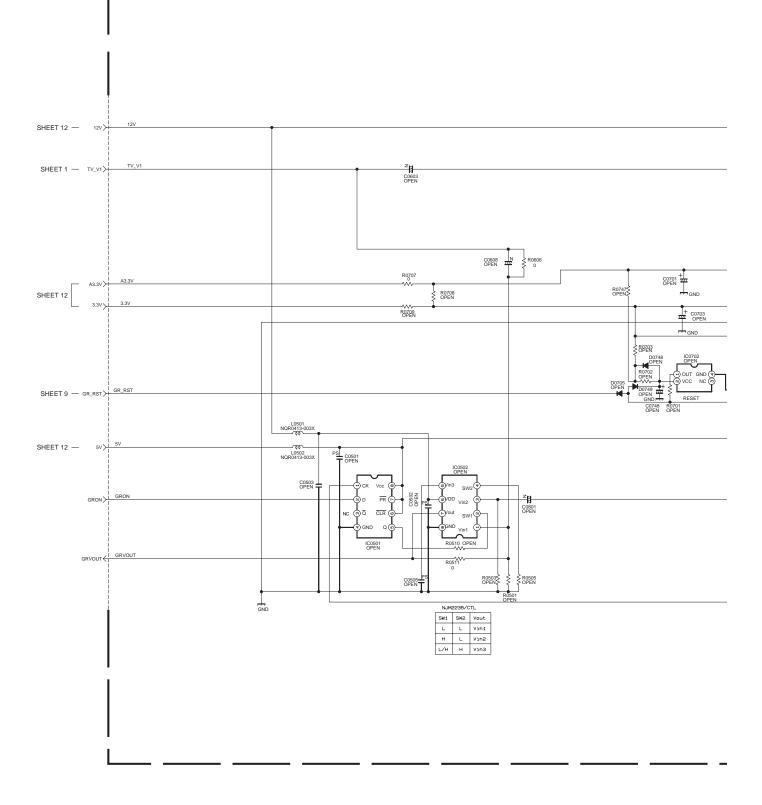


2-7 No.YA029

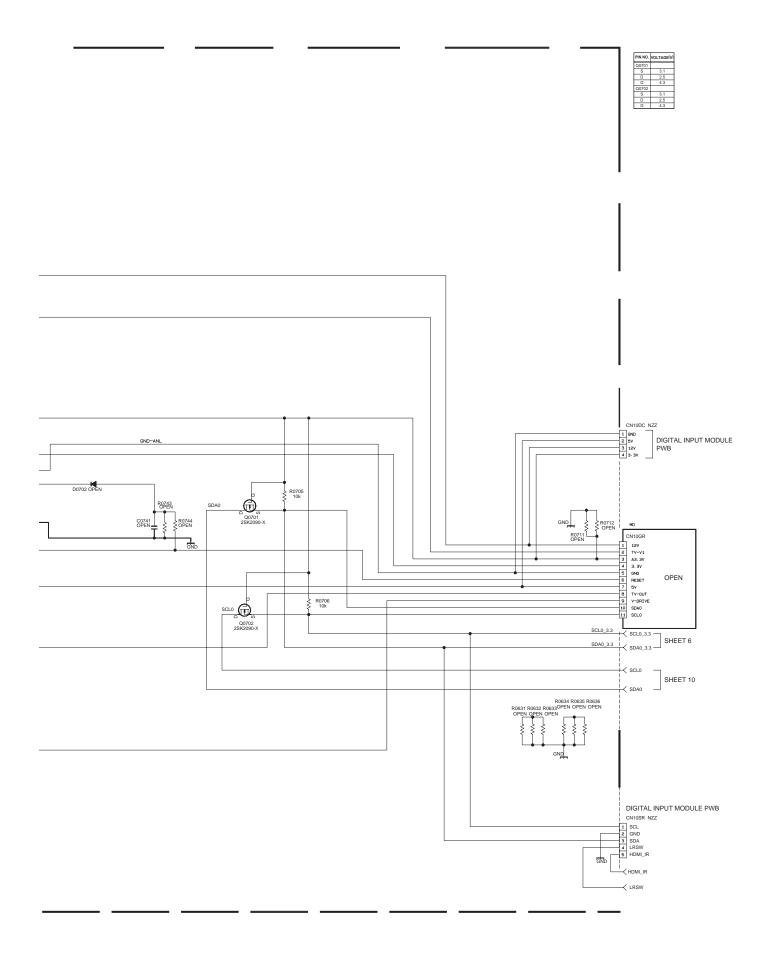


No.YA029 2-8

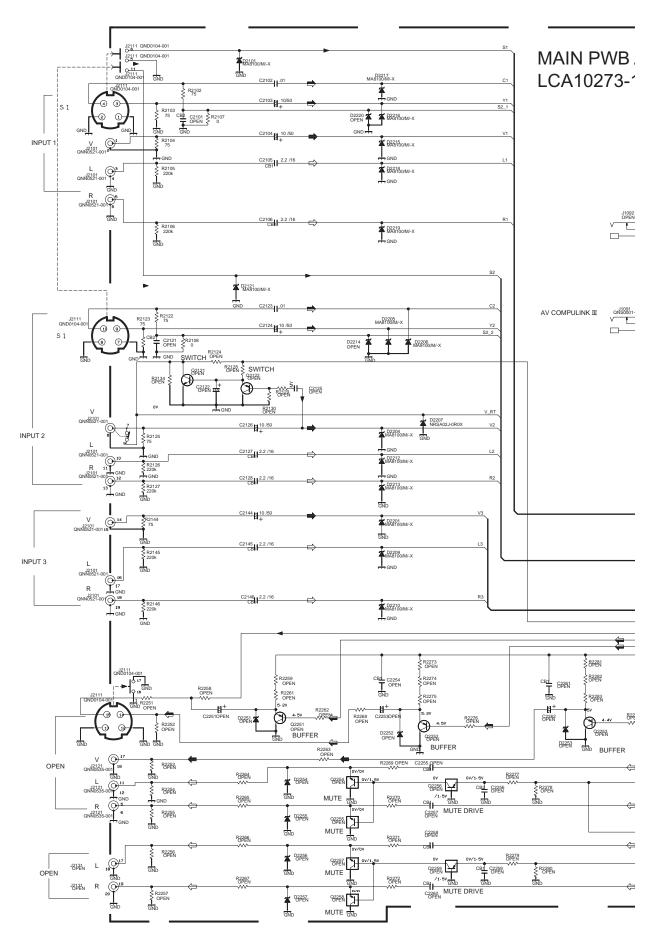
## MAIN PWB ASS'Y (2/12) [GR BASE PART] LCA10273-14G (SSB-1097A)



2-9 No.YA029

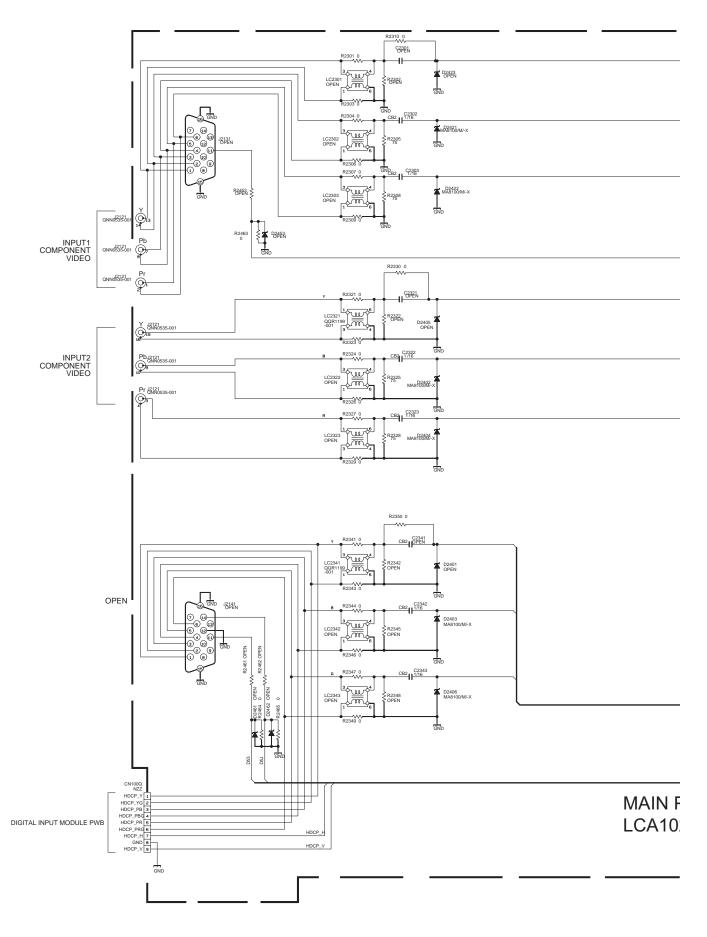


No.YA029 2-10

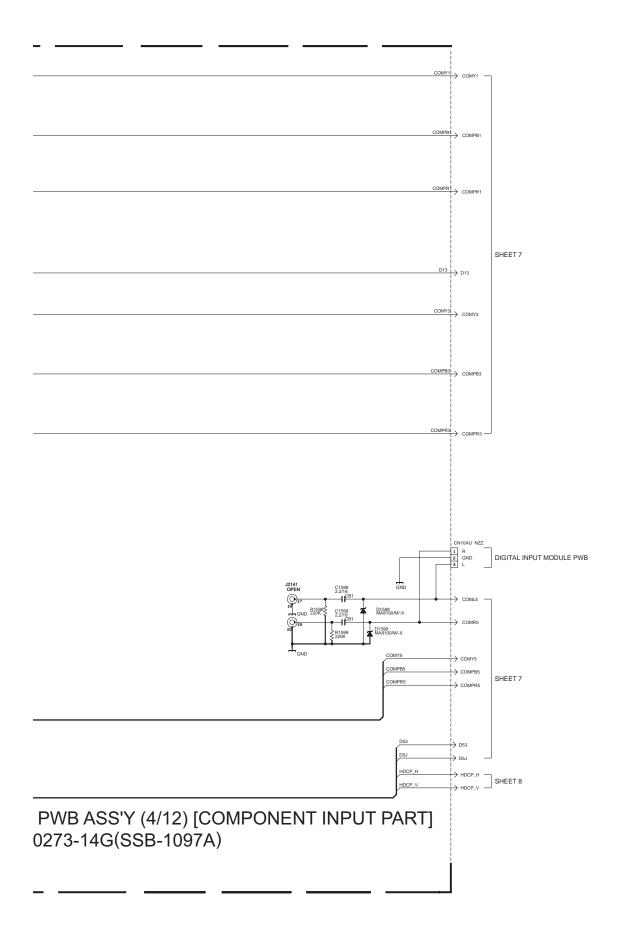


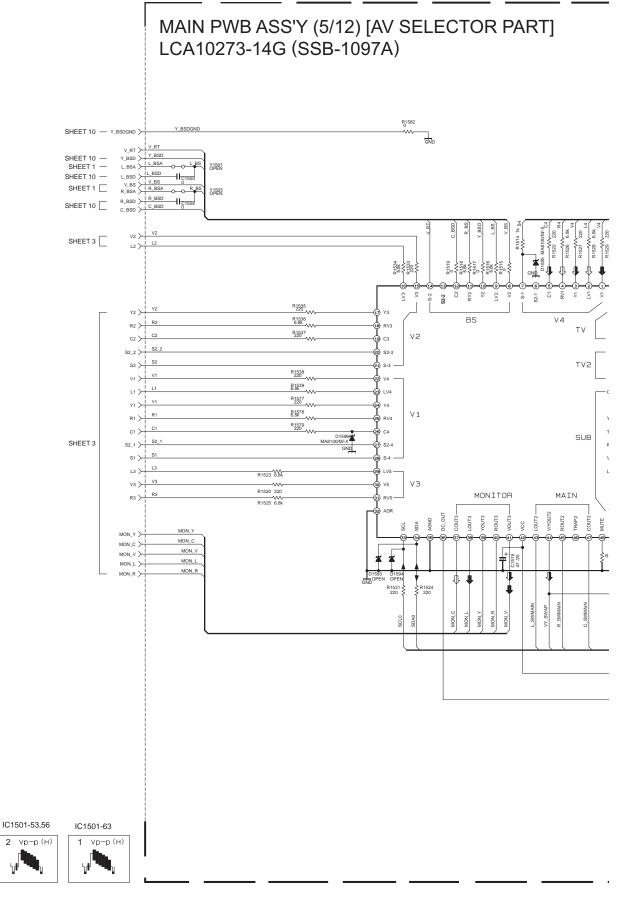
2-11 No.YA029

# 3 ASS'Y (3/12) [VIDEO INPUT PART] -14G(SSB-1097A) SHEET 10 SHEET 5 MON\_V MON\_L M\_MU MON\_R AUDIO\_L AS\_MU AUDIO\_R AV\_9V SIDC MON\_C MON\_C SHEET 5 82258 ### GND PS2259 82260 MUTE



2-13 No.YA029

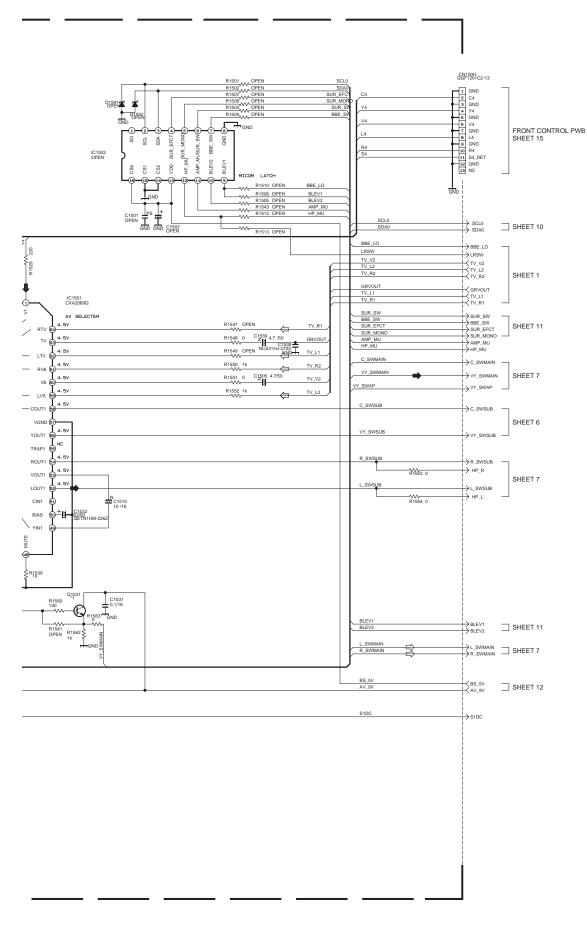


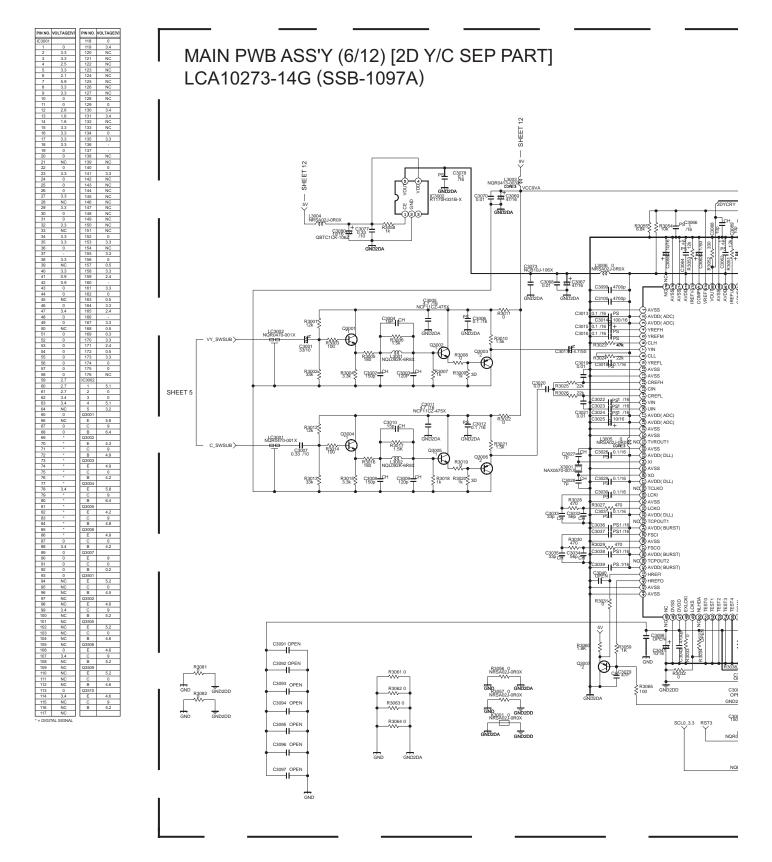


2-15 No.YA029

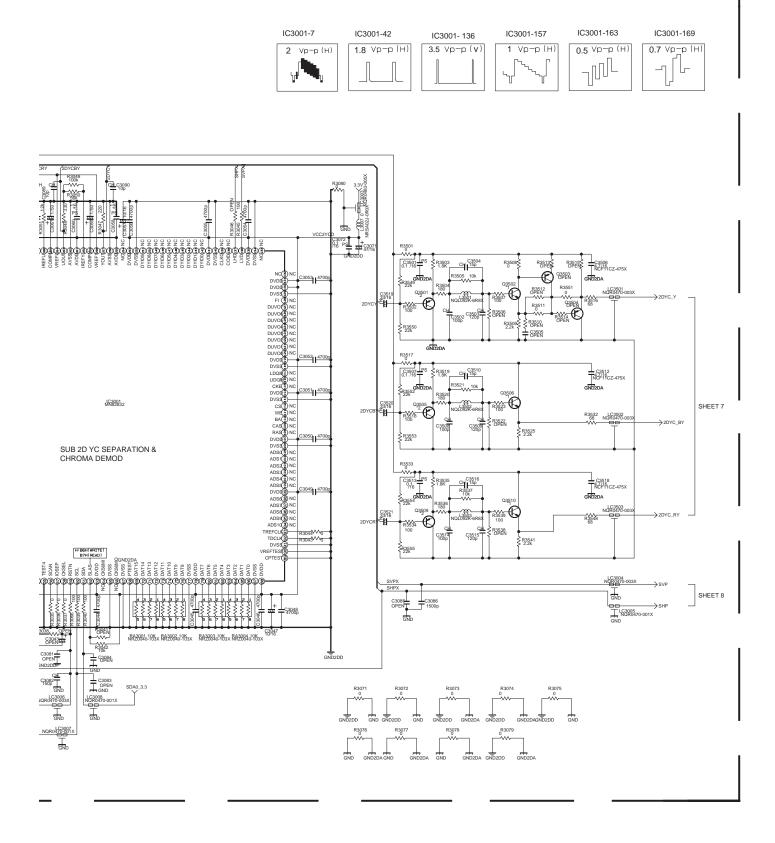
IC1501-44

1.6 Vp-p(H)

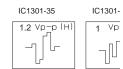


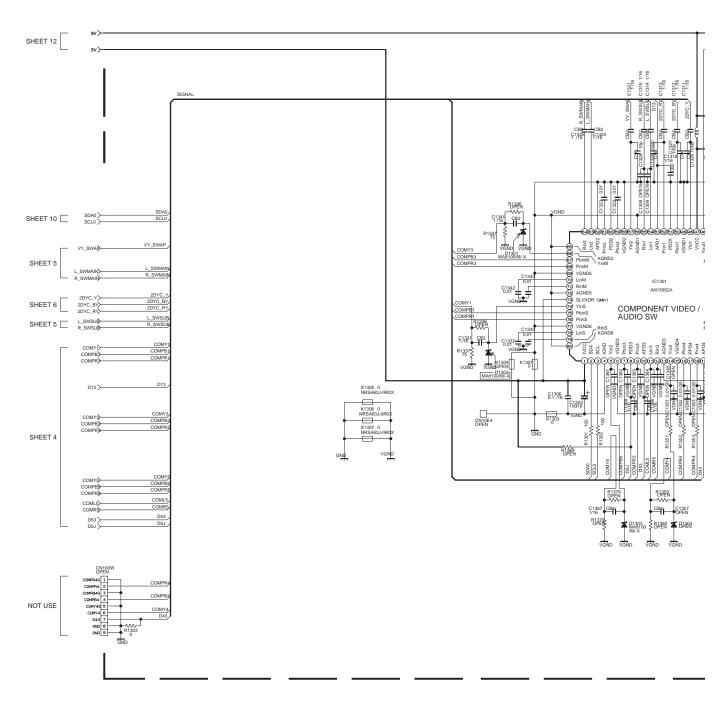


2-17 No.YA029

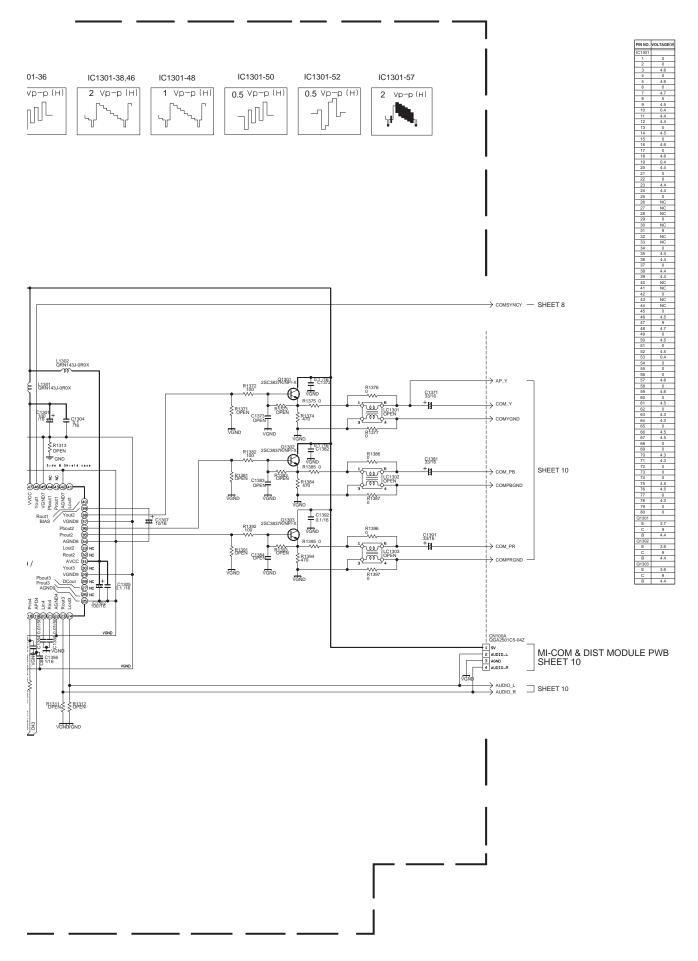


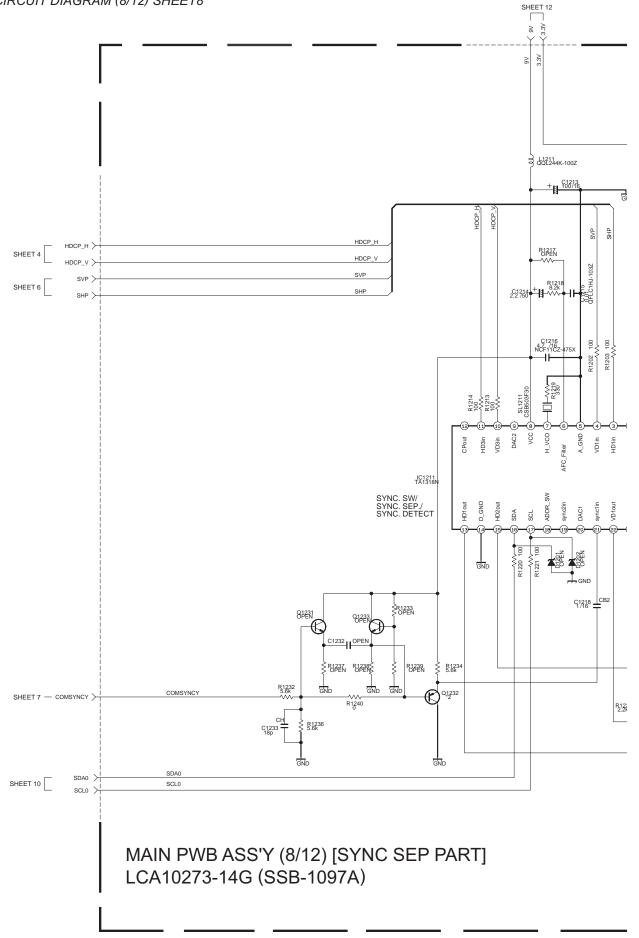
## MAIN PWB ASS'Y (7/12) [COMPONENT SW PART] LCA10273-14G (SSB-1097A)



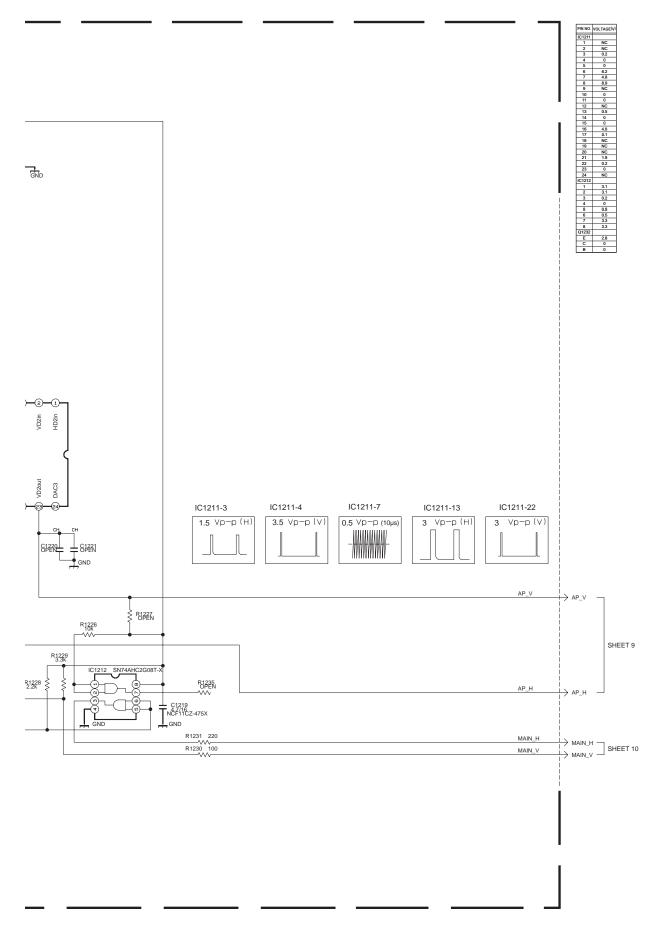


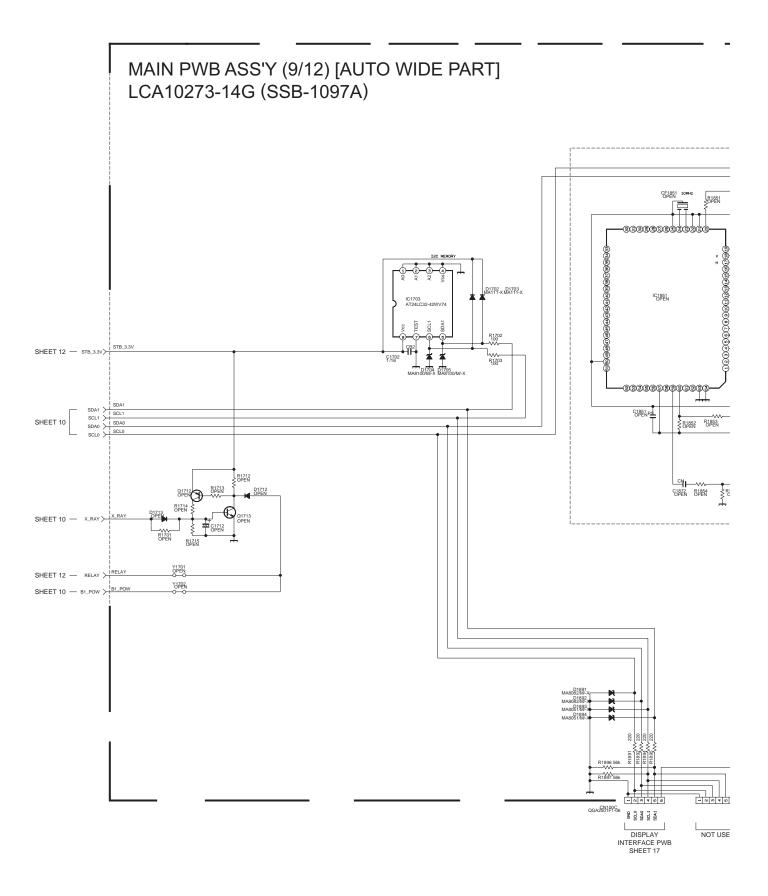
2-19 No.YA029



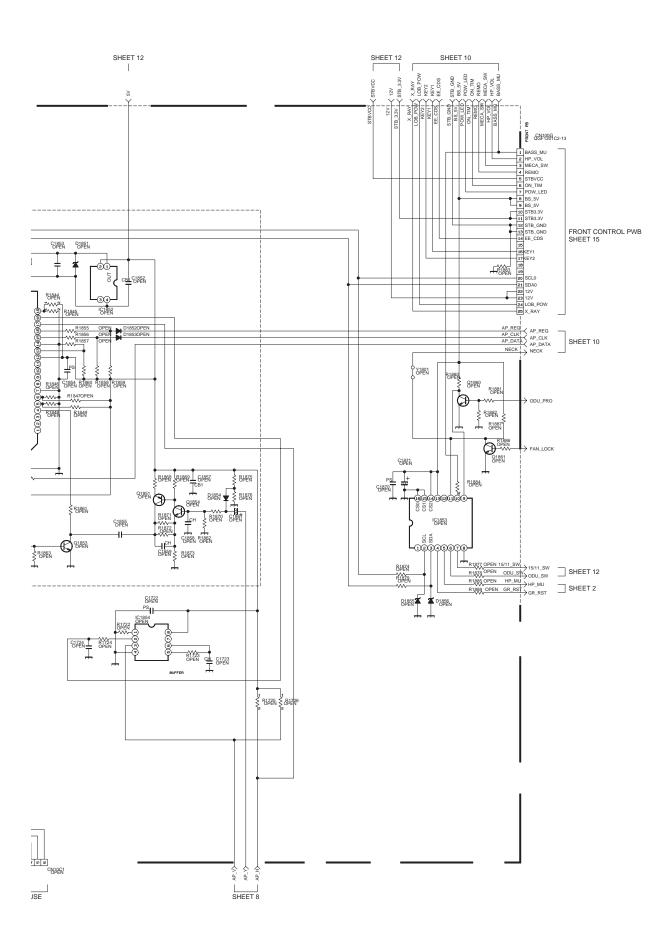


2-21 No.YA029

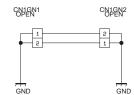


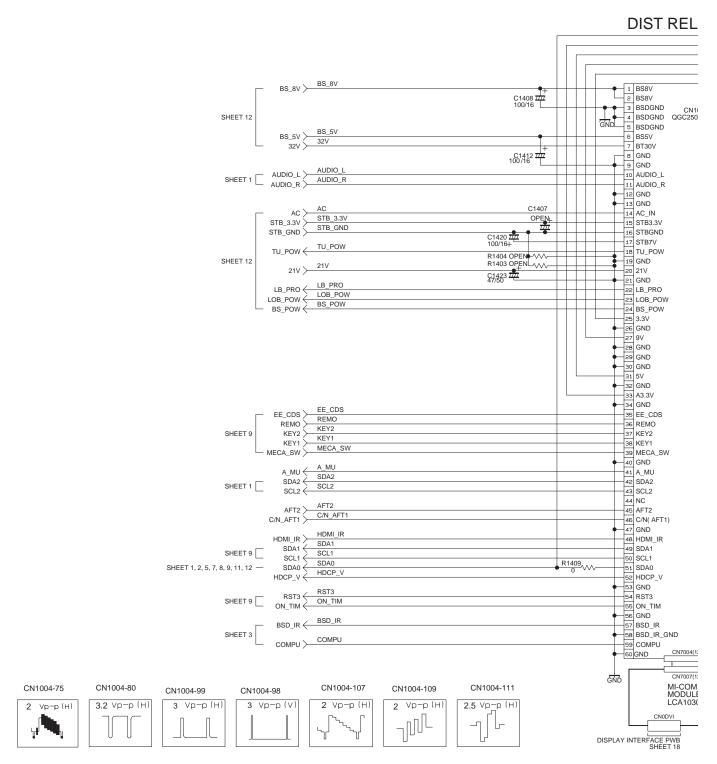


2-23 No.YA029

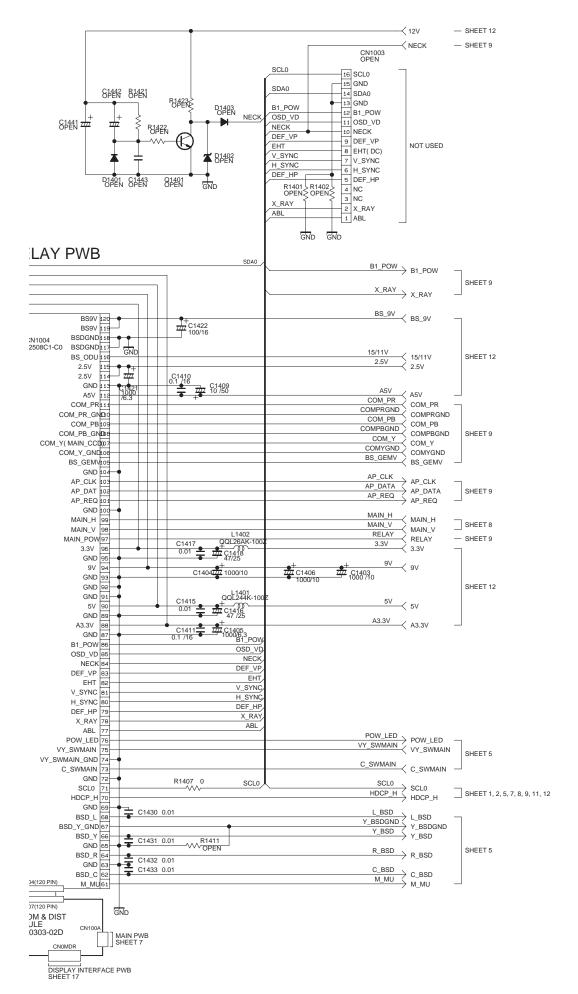


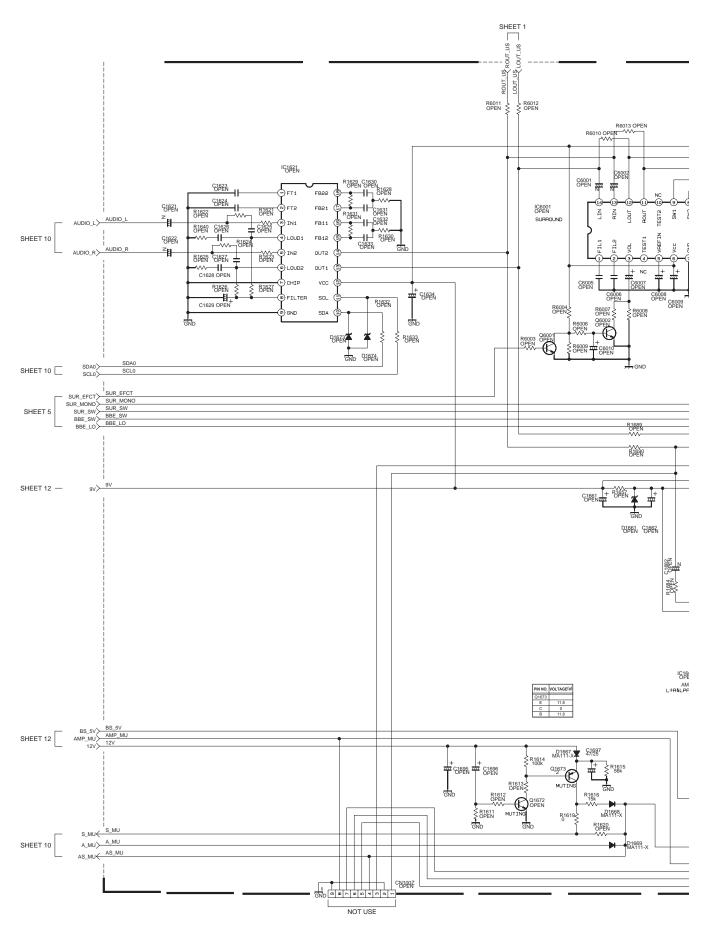
MAIN PWB ASS'Y (10/12) [DIST BASE PART] LCA10273-14G (SSB-1097A)



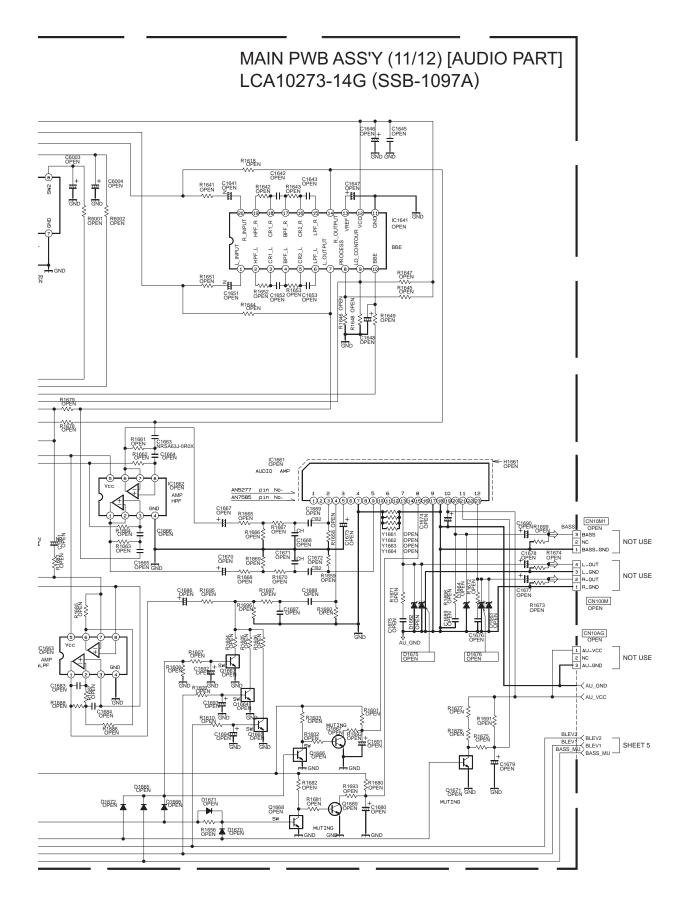


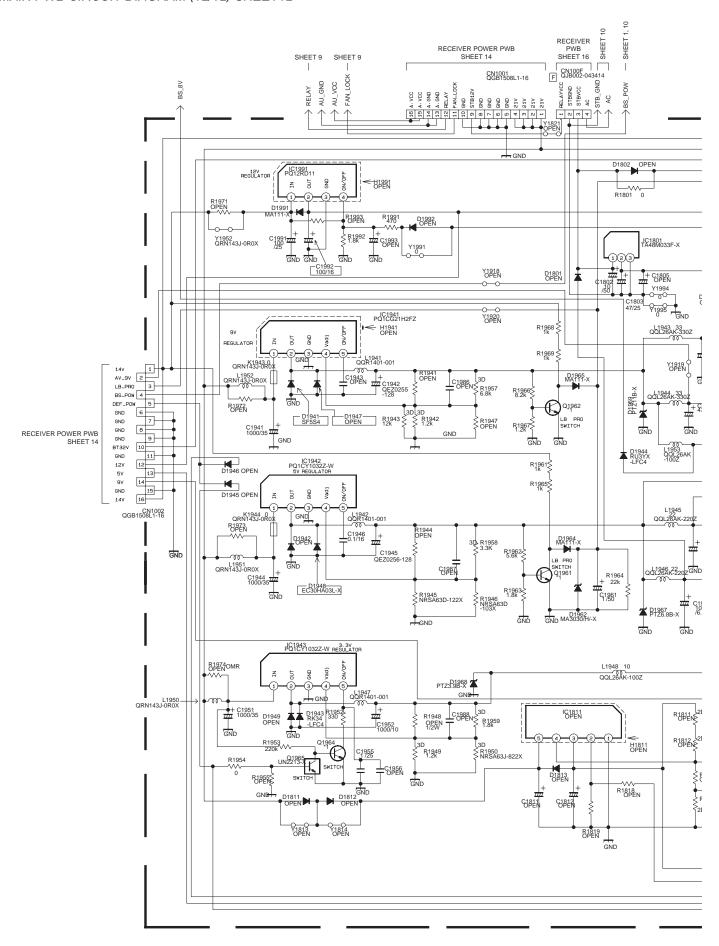
2-25 No.YA029





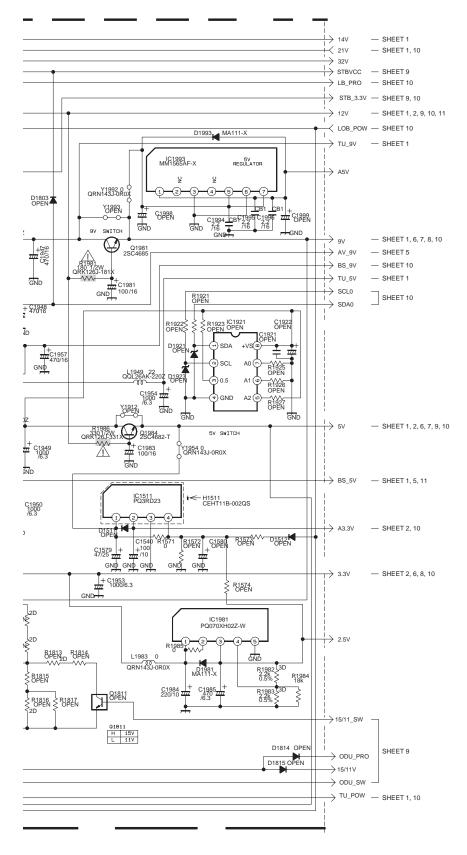
2-27 No.YA029



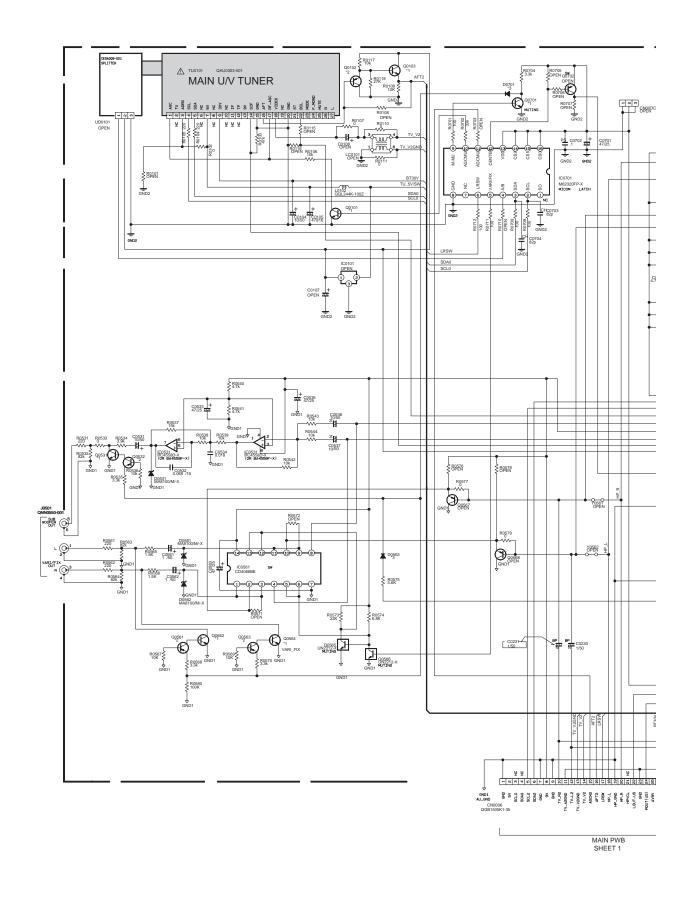


2-29 No.YA029

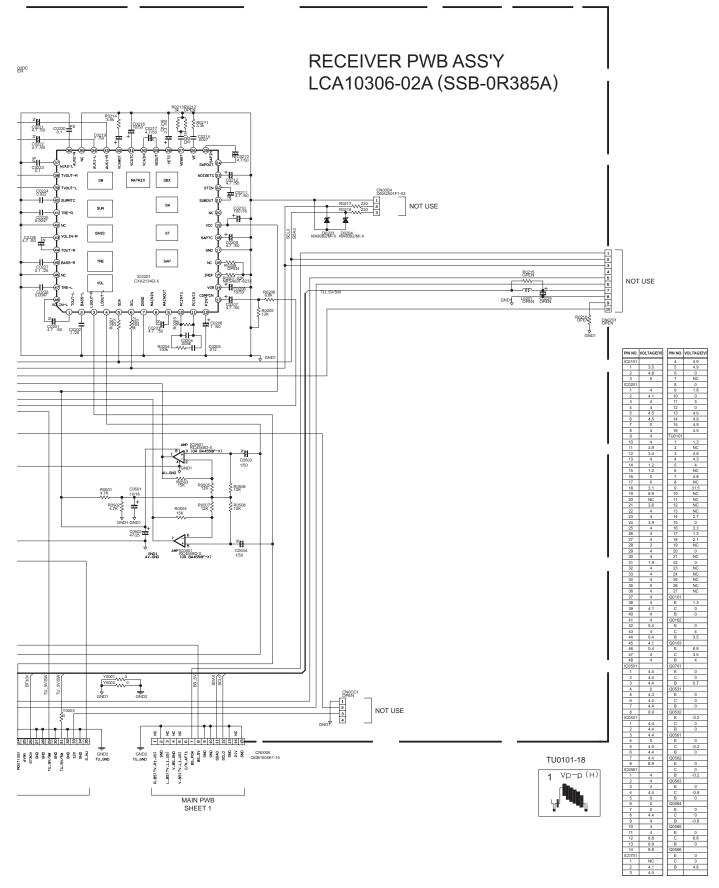
### MAIN PWB ASS'Y (12/12) [REGULATOR PART] LCA10273-14G (SSB-1097A)

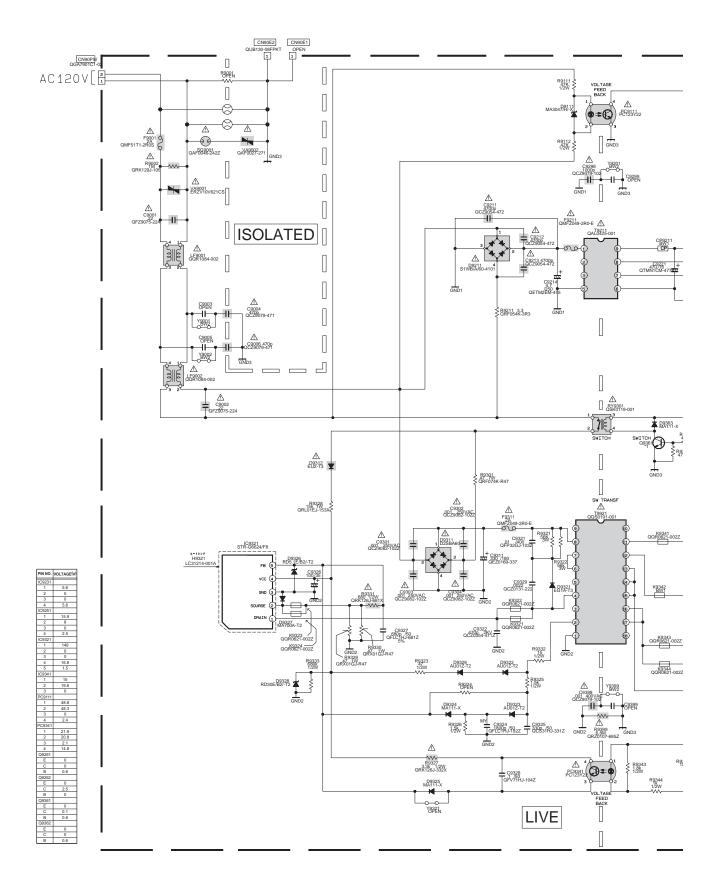




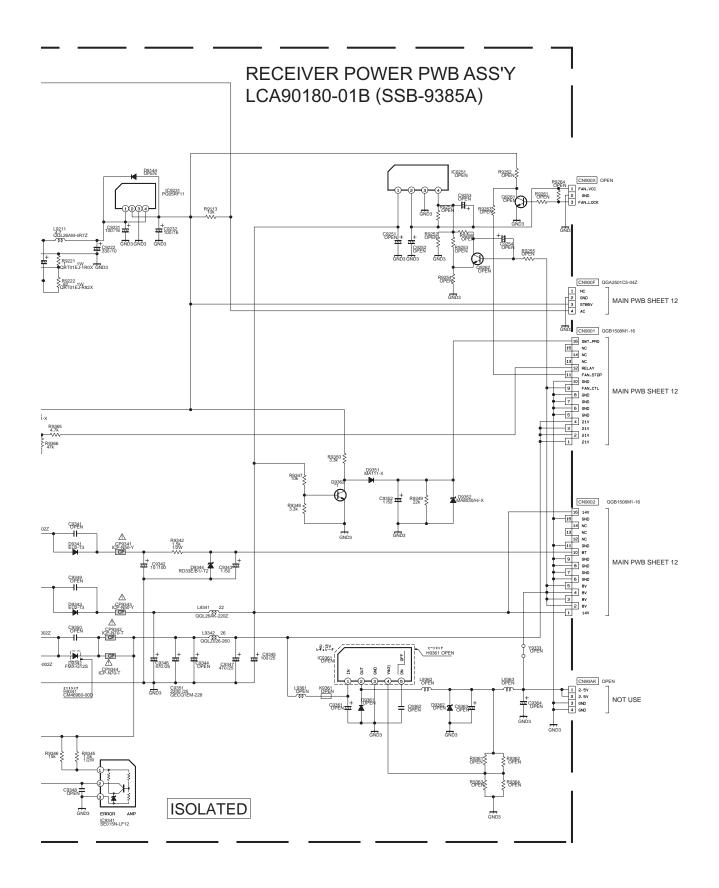


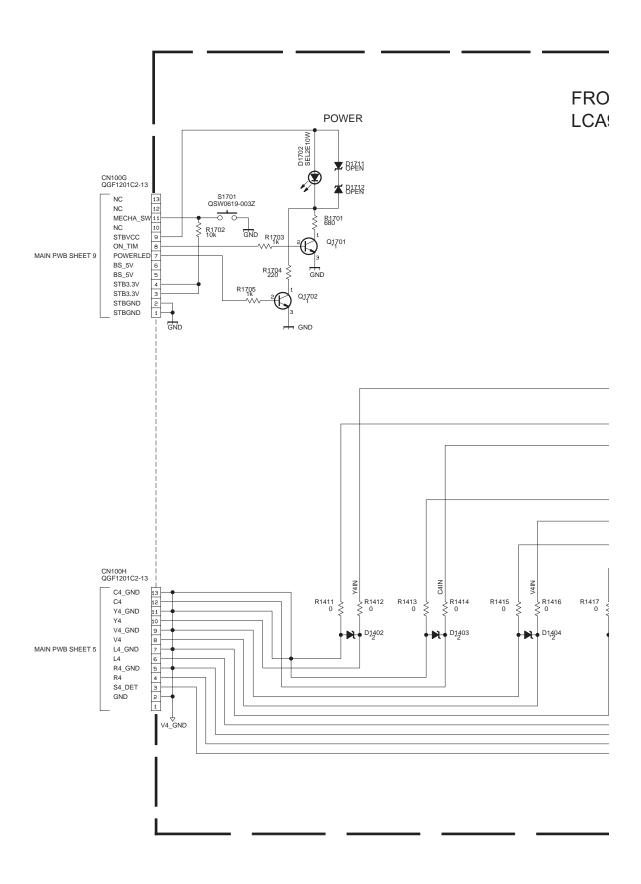
2-31 No.YA029





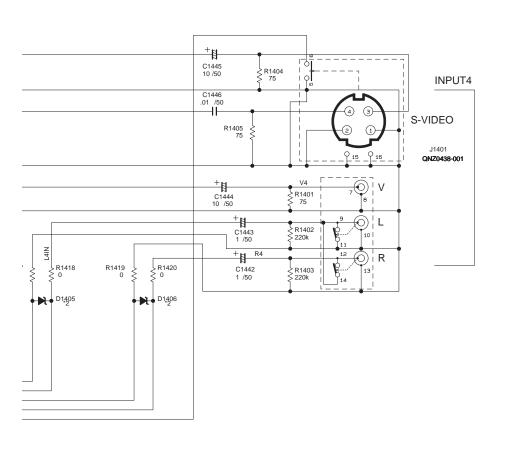
2-33 No.YA029



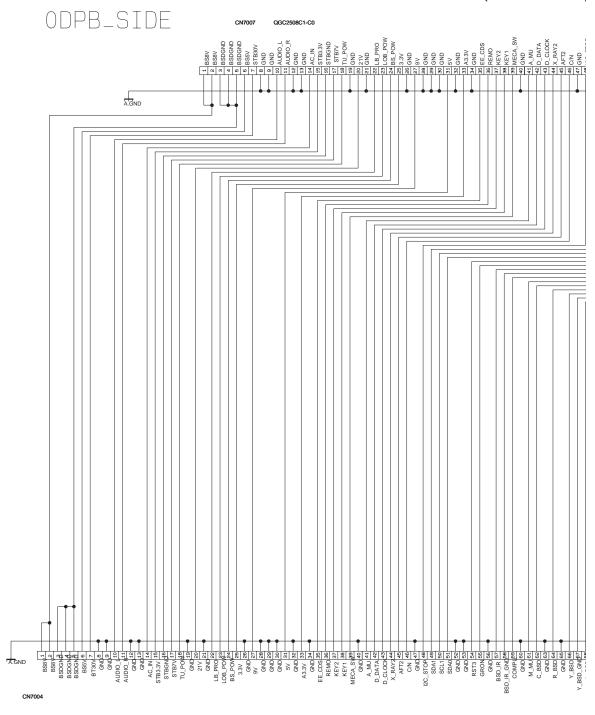


2-35 No.YA029

# ONT CONTROL PWB ASS'Y 490178-02A (SSB-0L097A)

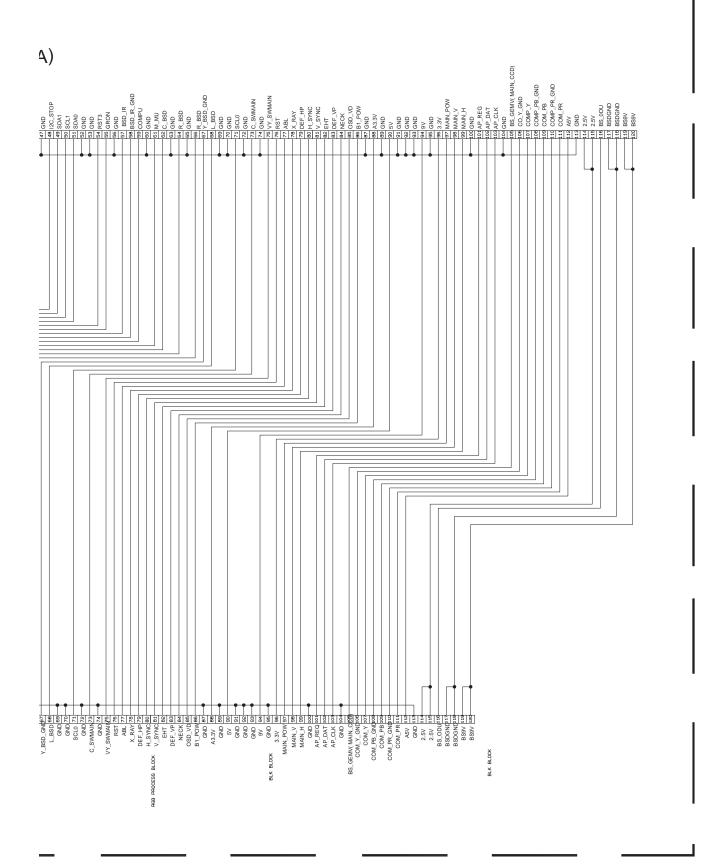


## DIST RELAY PWB ASS'Y LCA10210-01E (SSB-7065A)



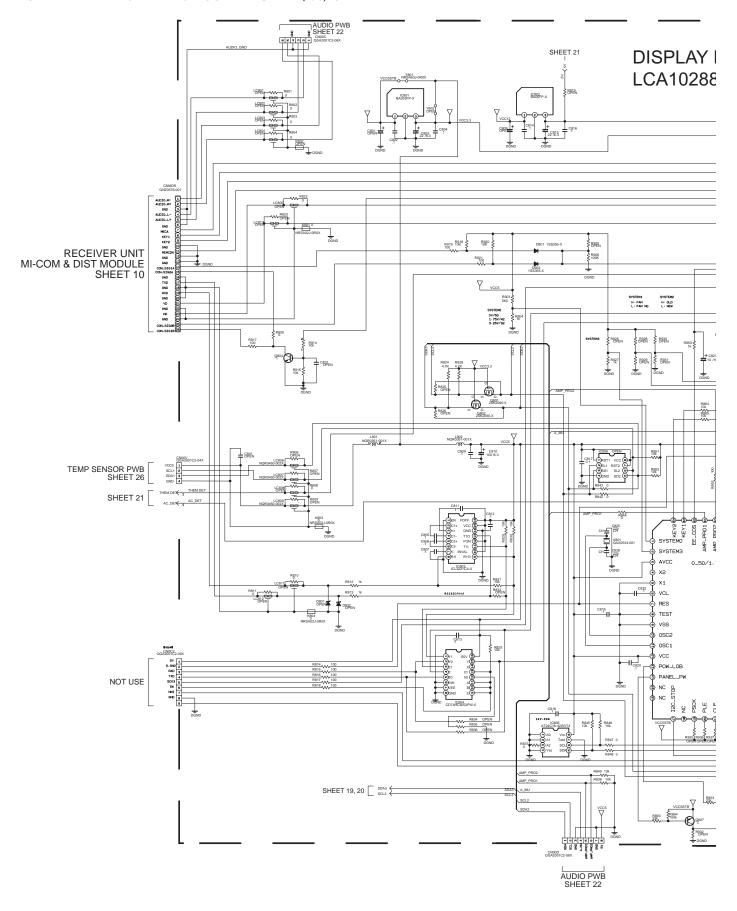
1000PB\_SIDE

2-37 No.YA029

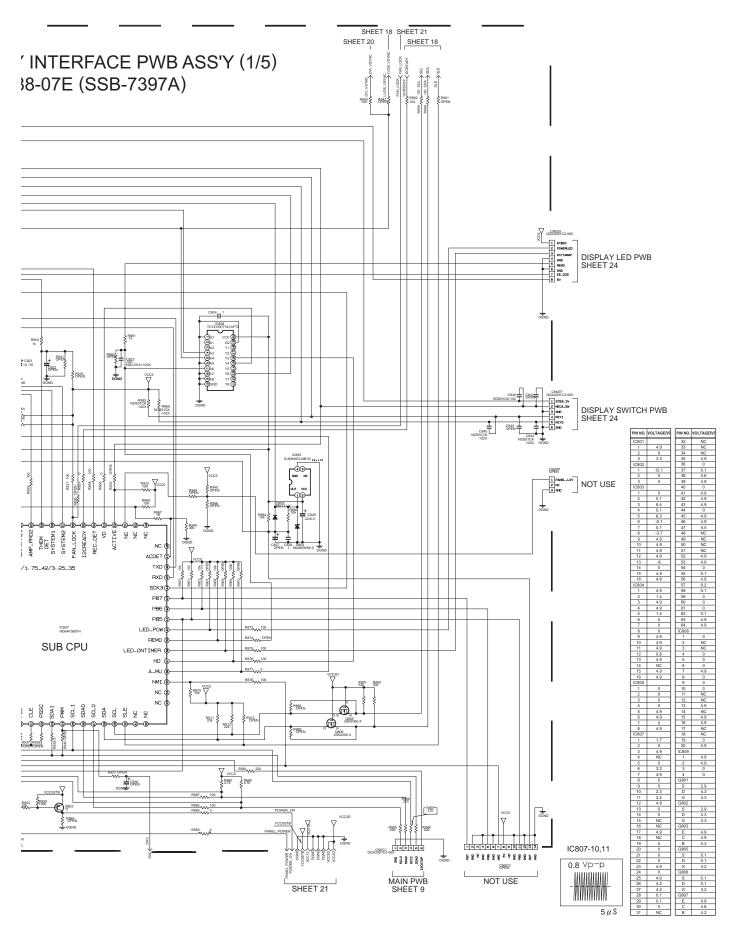


#### **CIRCUIT DIAGRAMS [DISPLAY UNIT]**

DISPLAY INTERFACE PWB CIRCUIT DIAGRAM (1/5) SHEET17



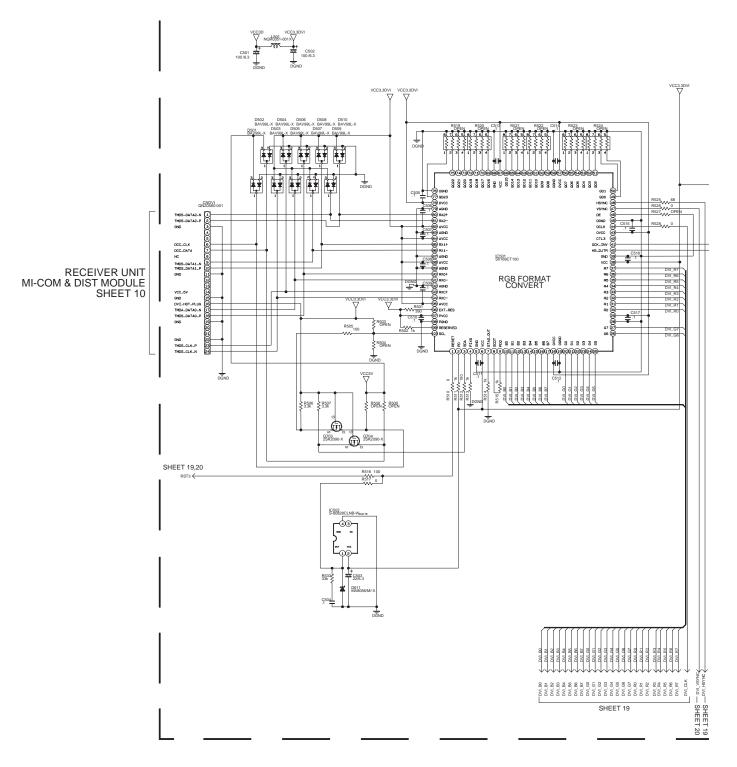
2-39 No.YA029



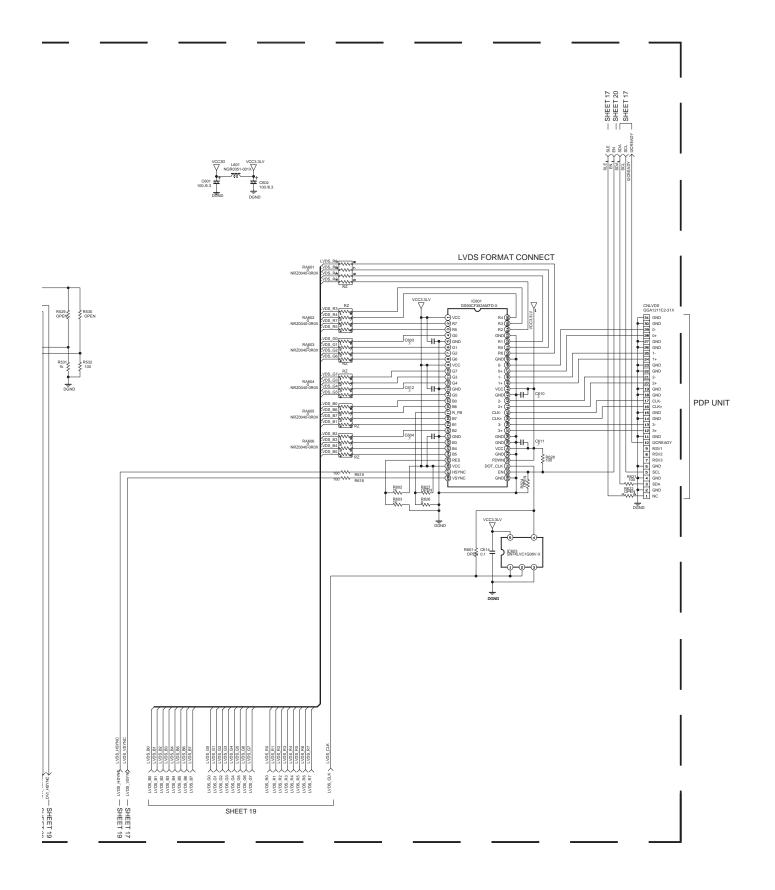
No.YA029

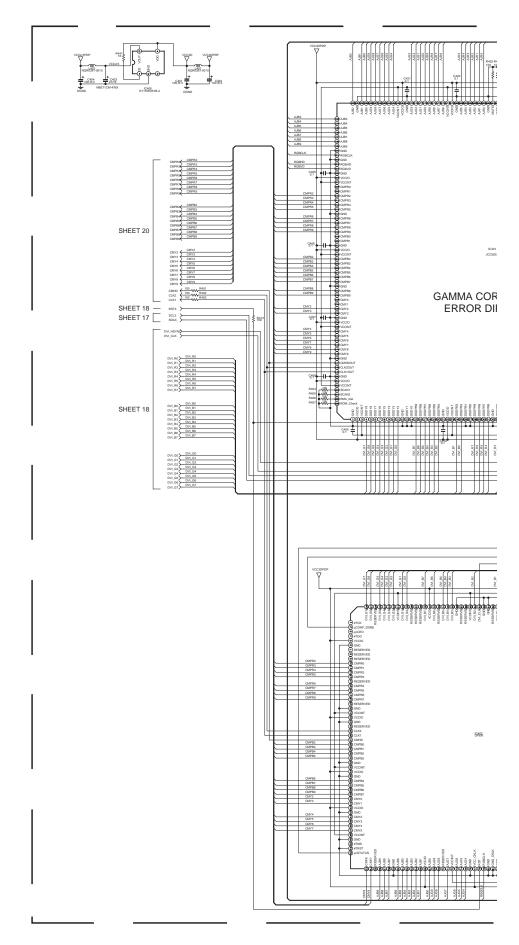
2-40

#### DISPLAY INTERFACE PWB ASS'Y (2/5) LCA10288-07E (SSB-7397A)

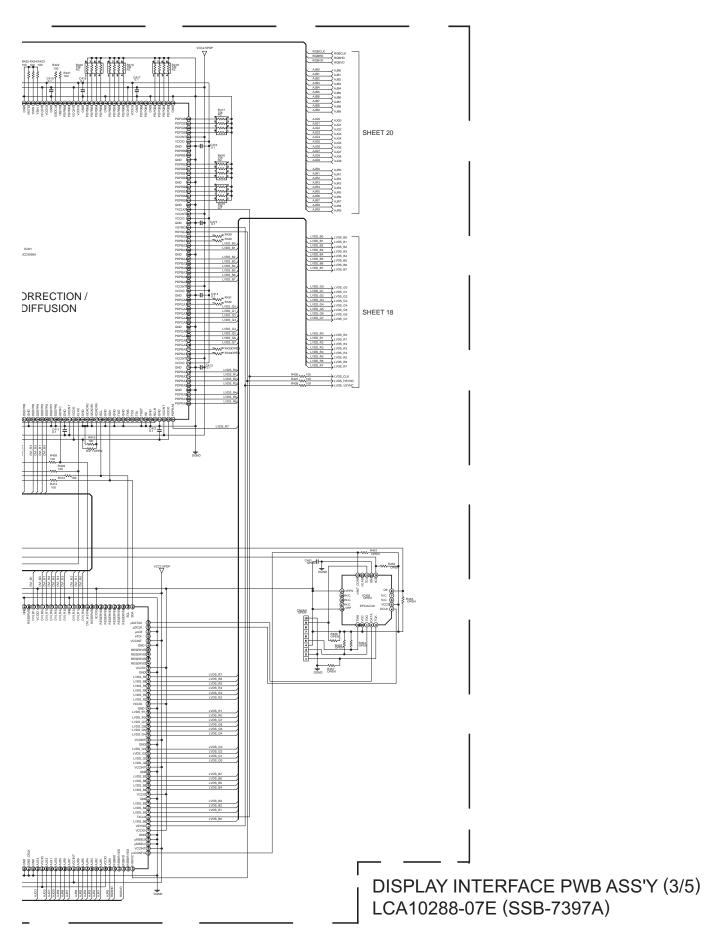


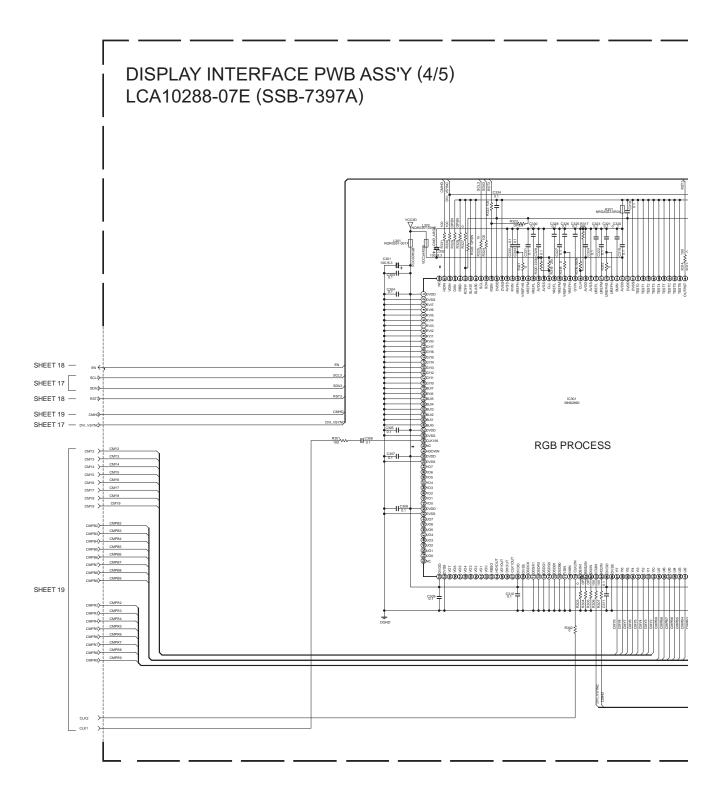
2-41 No.YA029



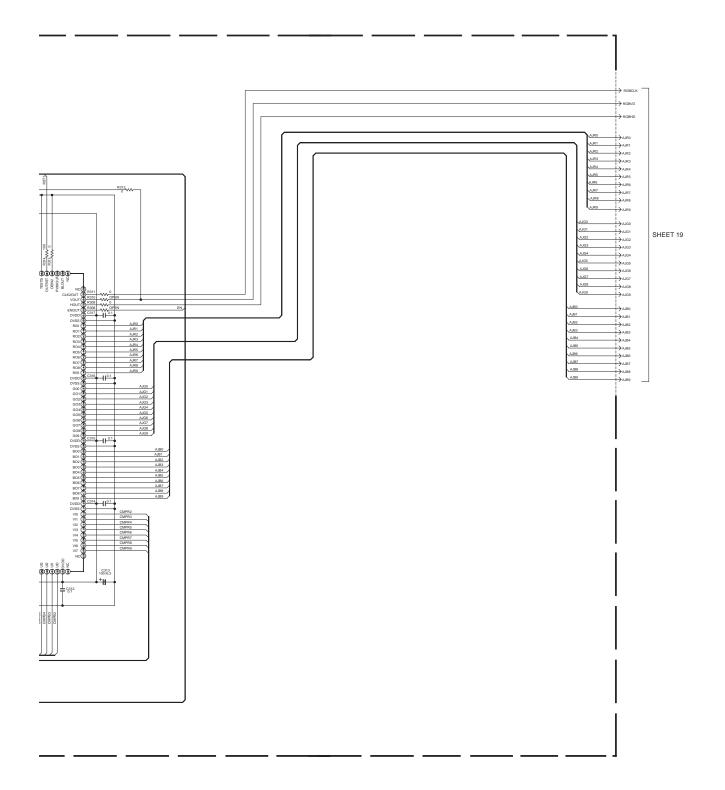


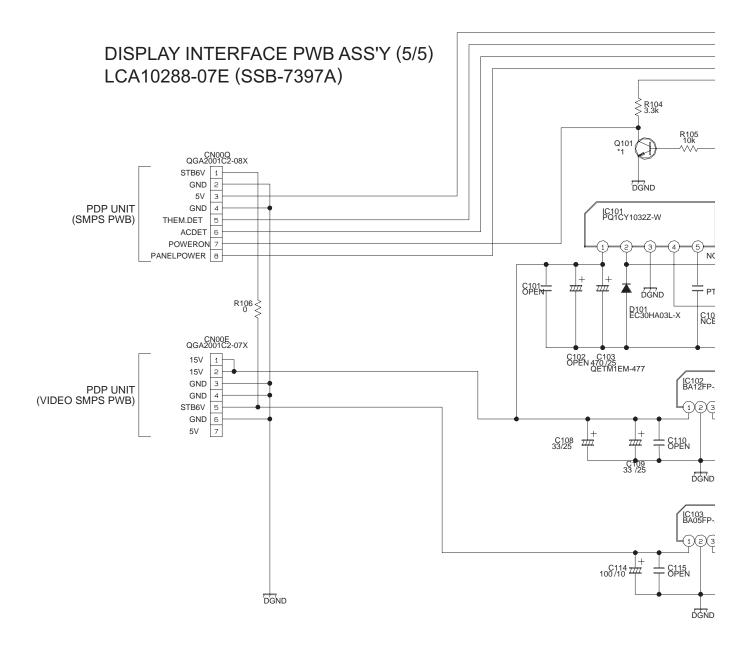
2-43 No.YA029



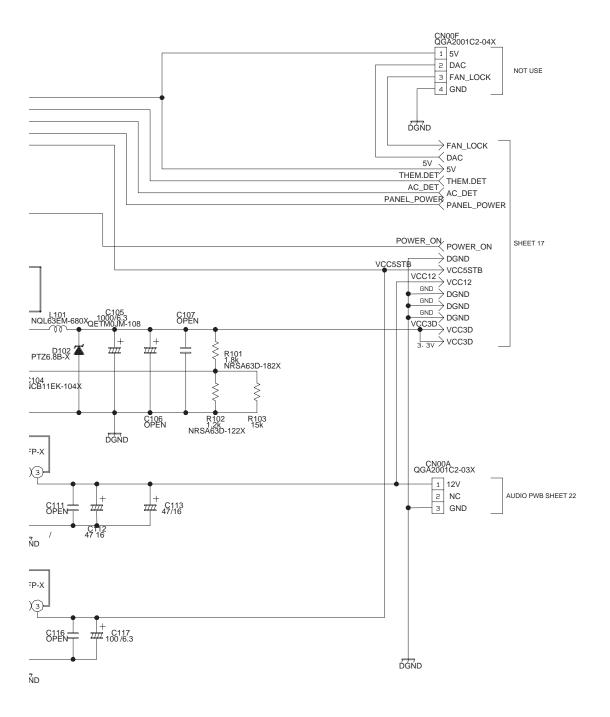


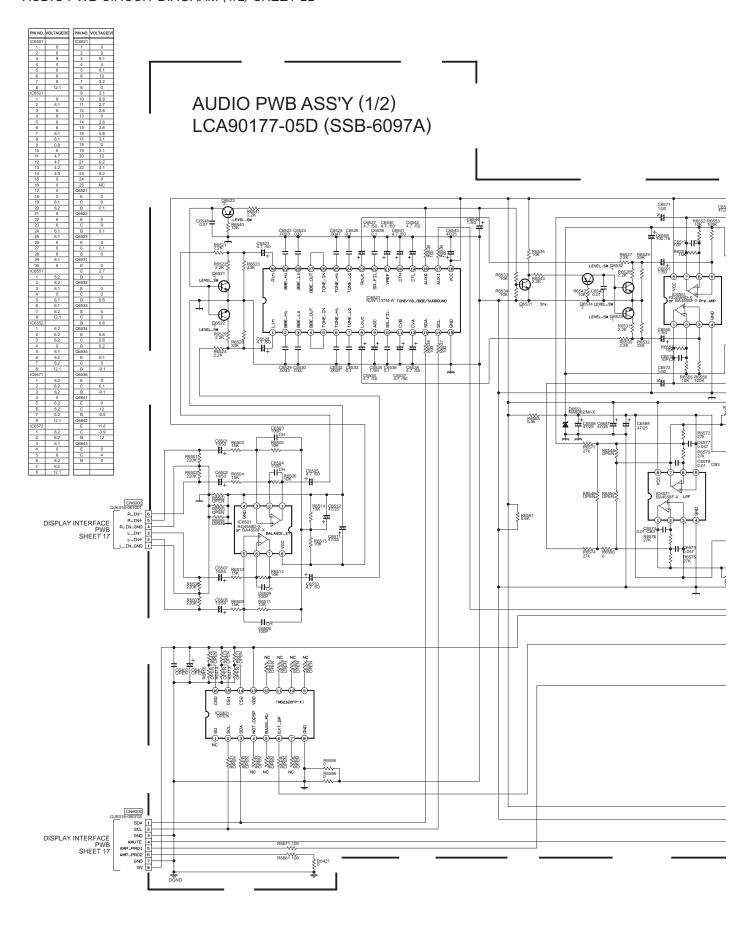
2-45 No.YA029



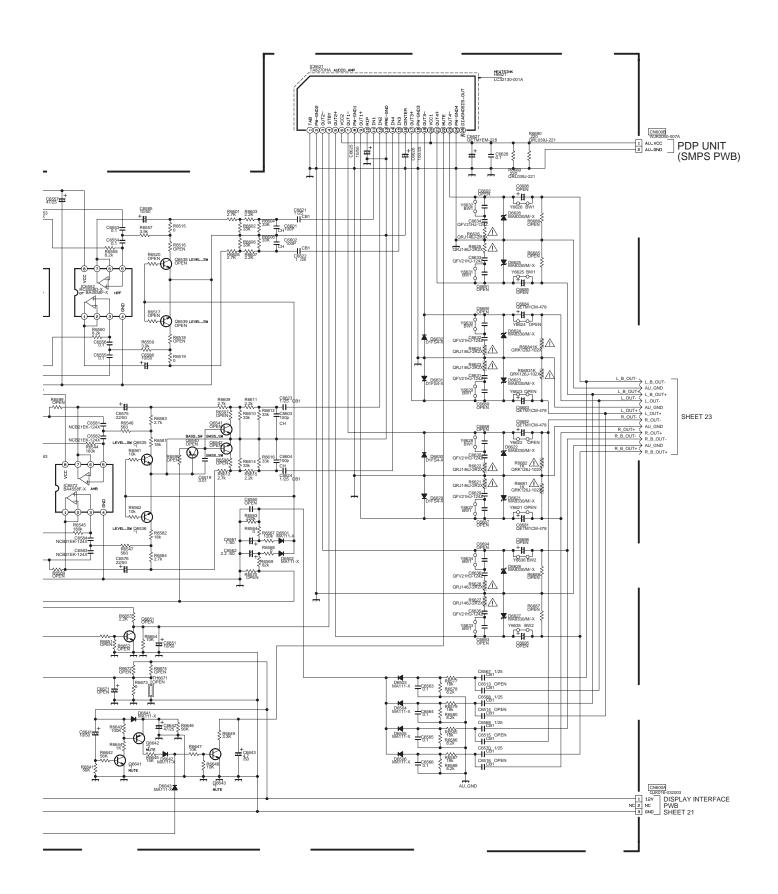


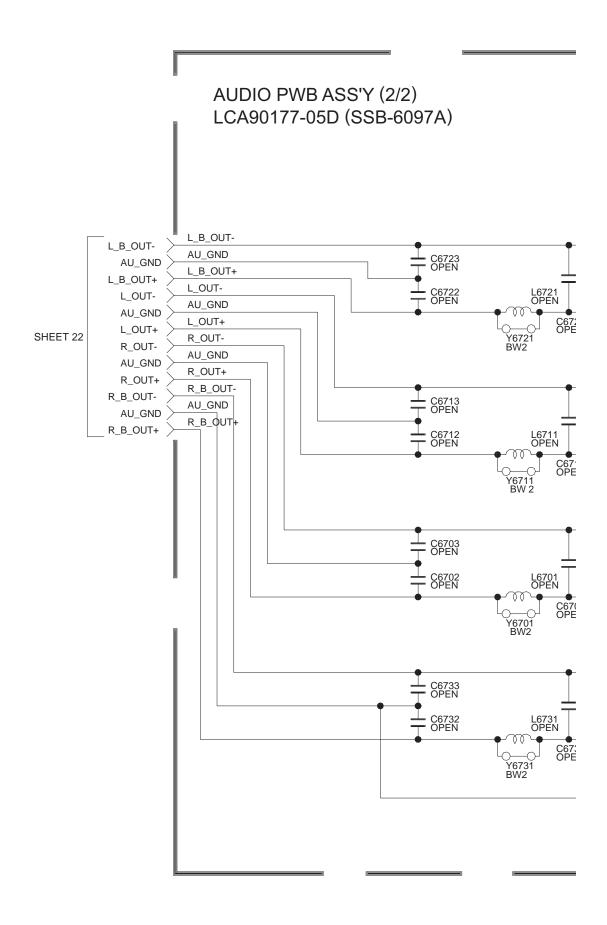
2-47 No.YA029



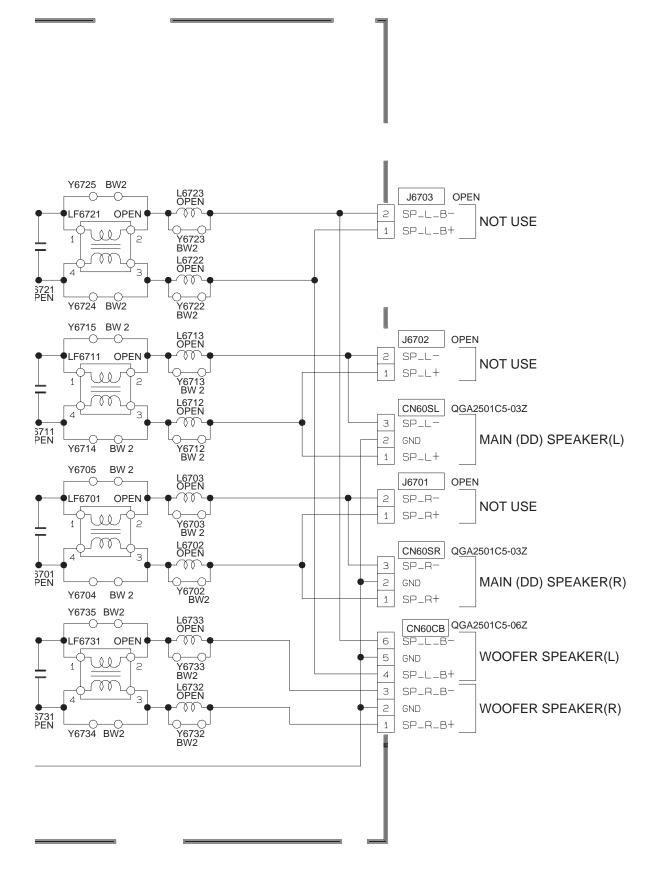


2-49 No.YA029



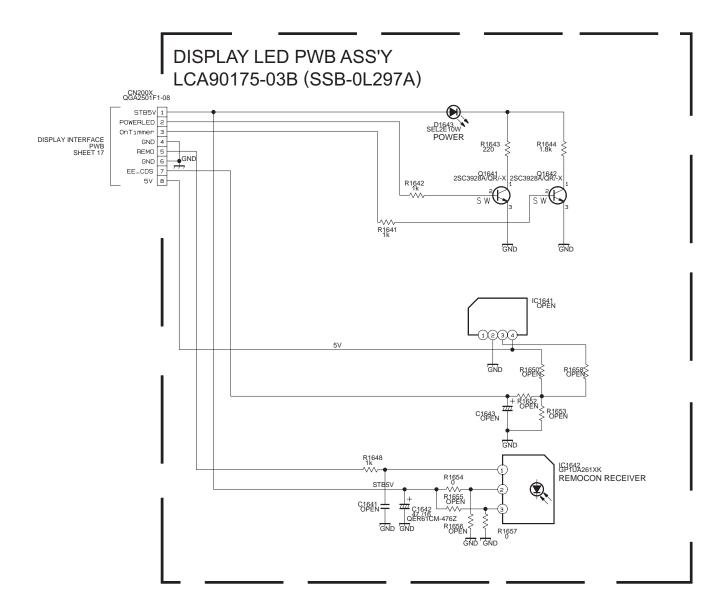


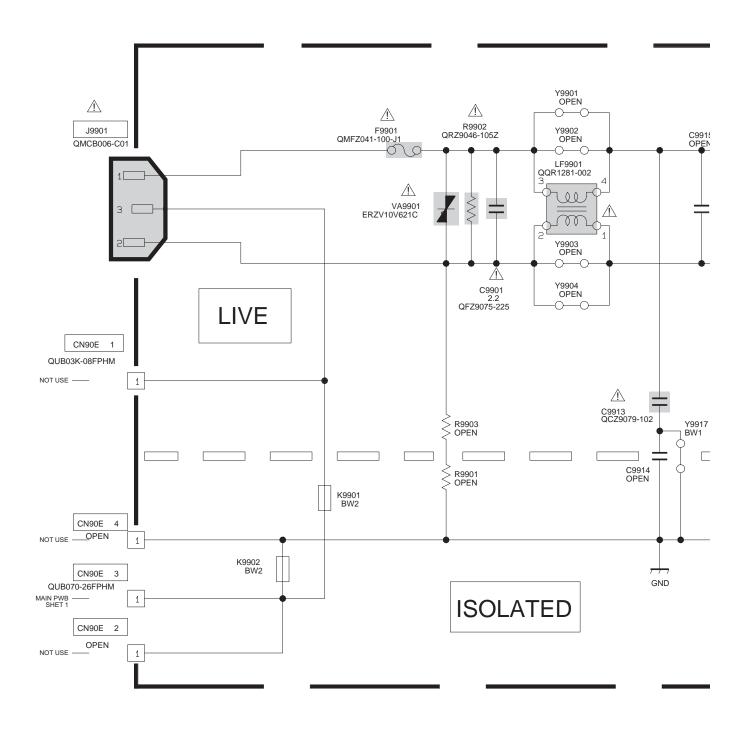
2-51 No.YA029



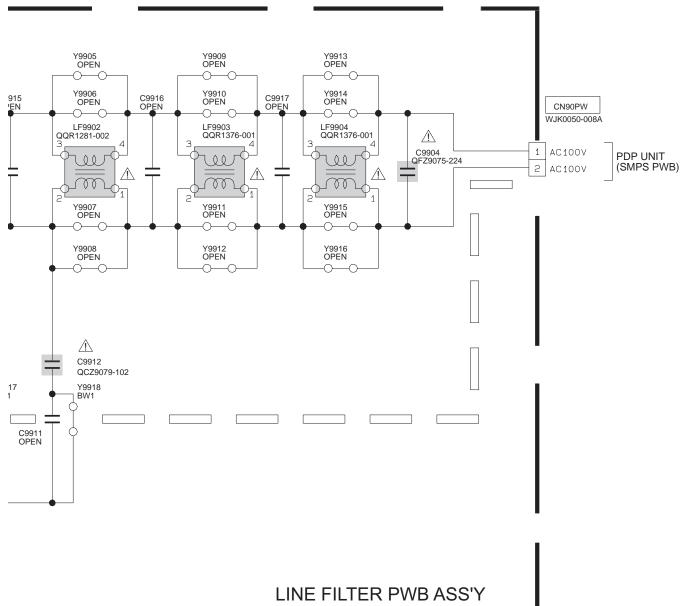
#### DISPLAY SWITCH PWB ASS'Y LCA90148-02B (SSB-0L385A) CN000T QGA2501F1-06 NC 1 MECA\_SW 2 GND 3 KEY1 4 \$2707 QSW0619-003Z DISPLAY INTERFACE PWB SHEET 17 S2706 QSW0619-003Z \$2701 QSW0619-003Z \$2705 QSW0619-003Z KEY2 5 POWER GND 6 VOLUME CHANNEL VOLUME GND GND $\overline{\rightarrow}$ R2702 R2701 5.6k \$2703 Q\$W0619-003Z Q\$W0619-003Z \$2702 QSW0619-003Z MENU INPUT CHANNEL SELECT <del>-</del>-R2703 R2704 GND

2-53 No.YA029

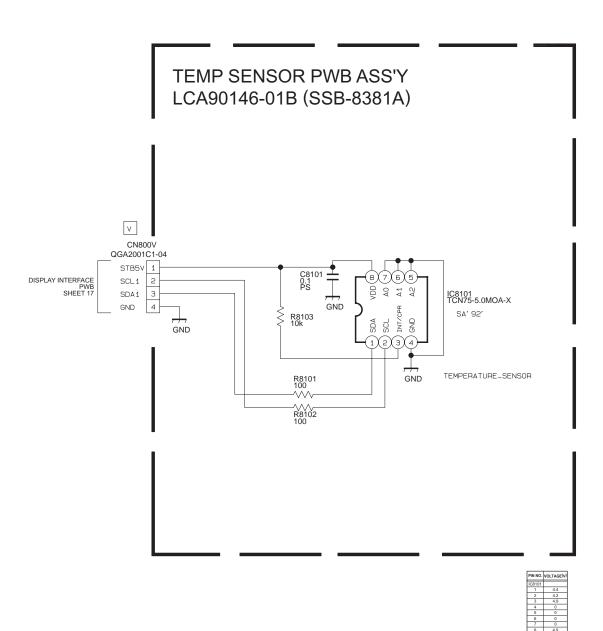




2-55 No.YA029



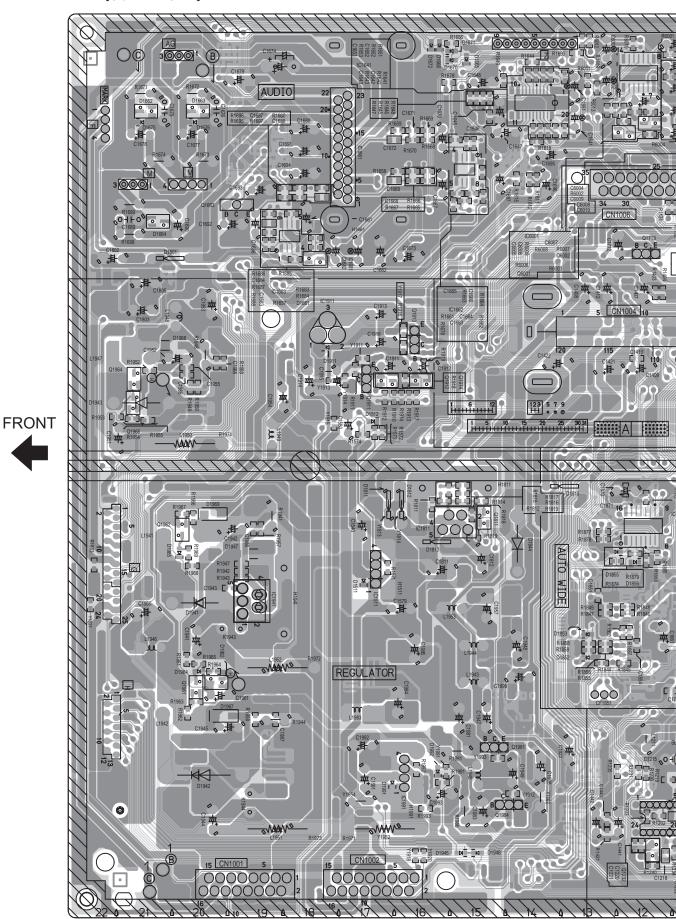
LCA90143-05B (SSB-9297A)



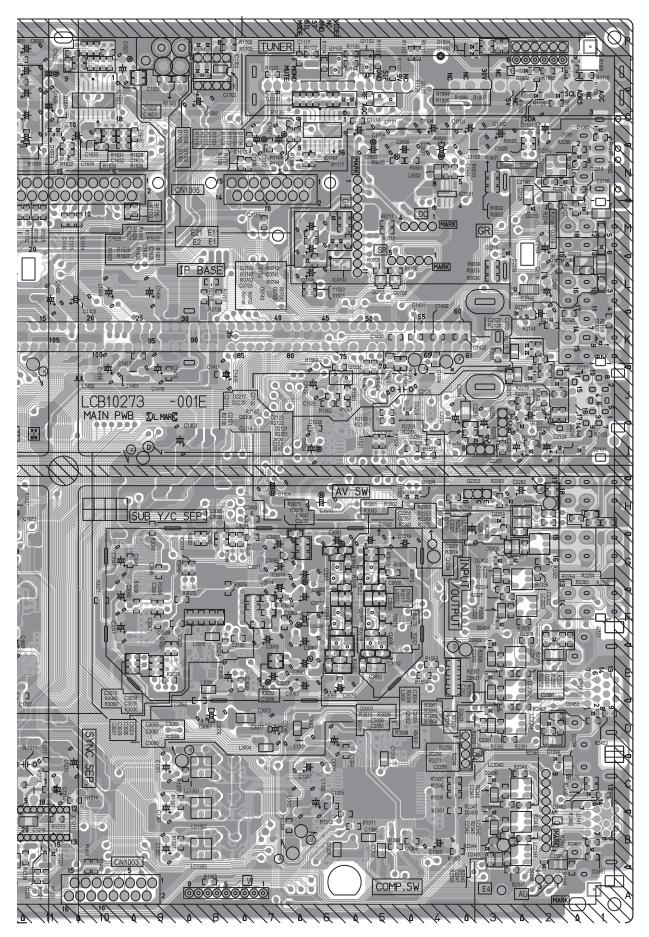
2-57 No.YA029

### PATTERN DIAGRAMS [RECEIVER UNIT]

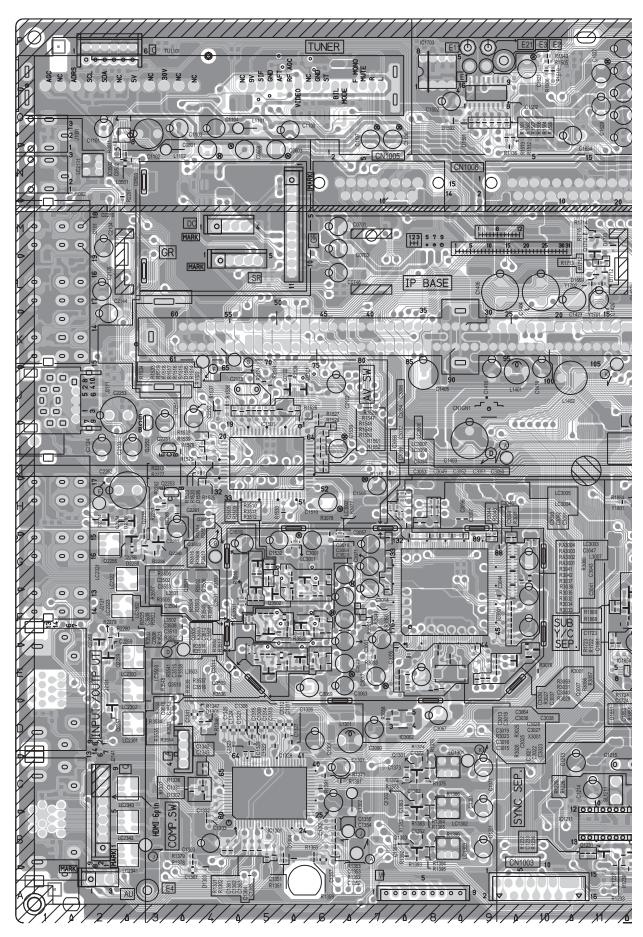
MAIN PWB PATTERN [SOLDER SIDE]



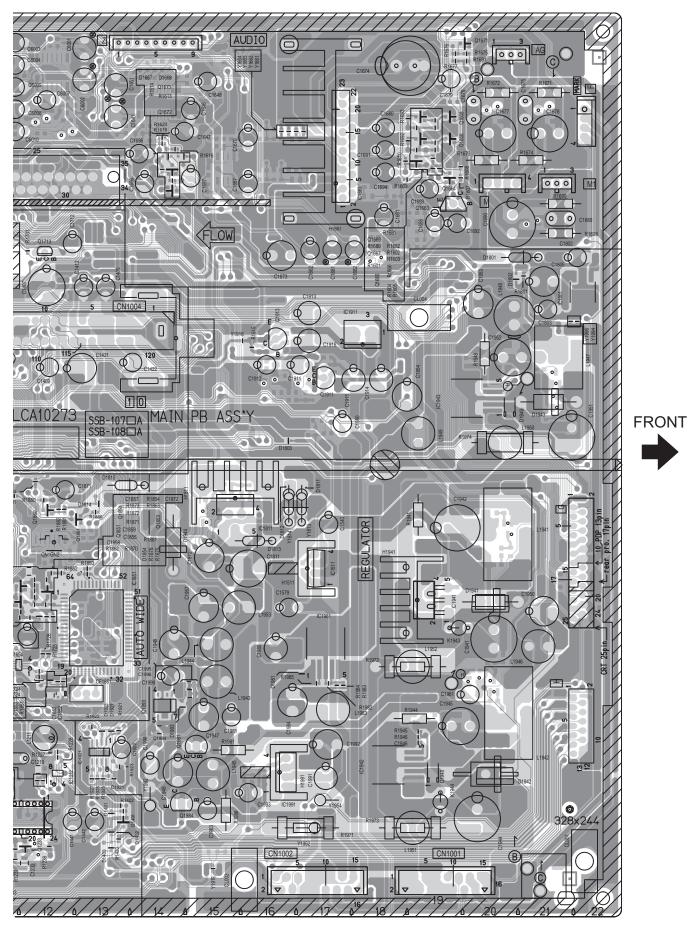
2-59 No.YA029



No.YA029

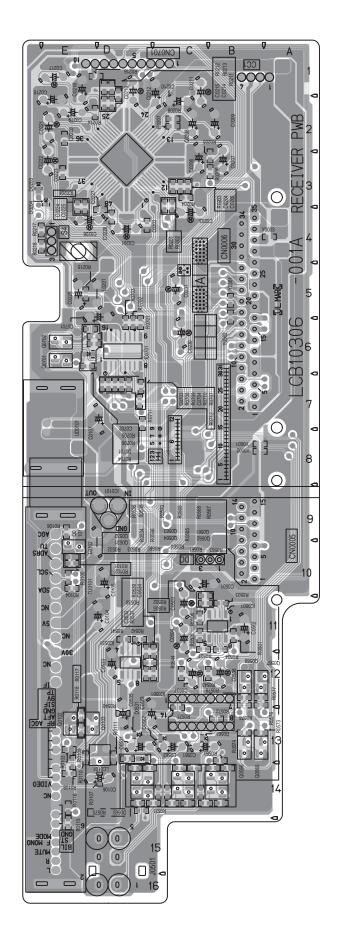


2-61 No.YA029

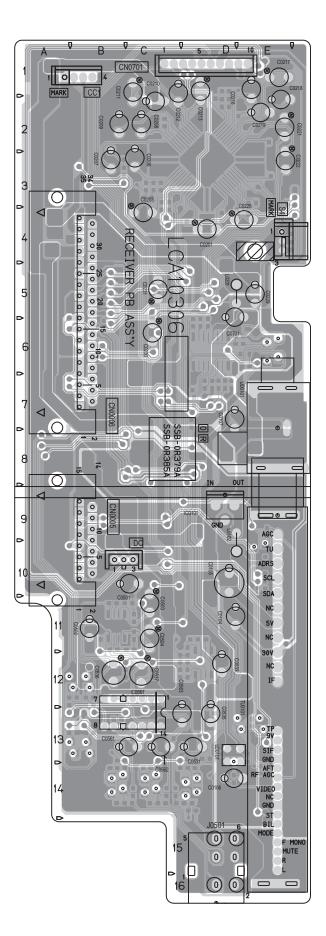




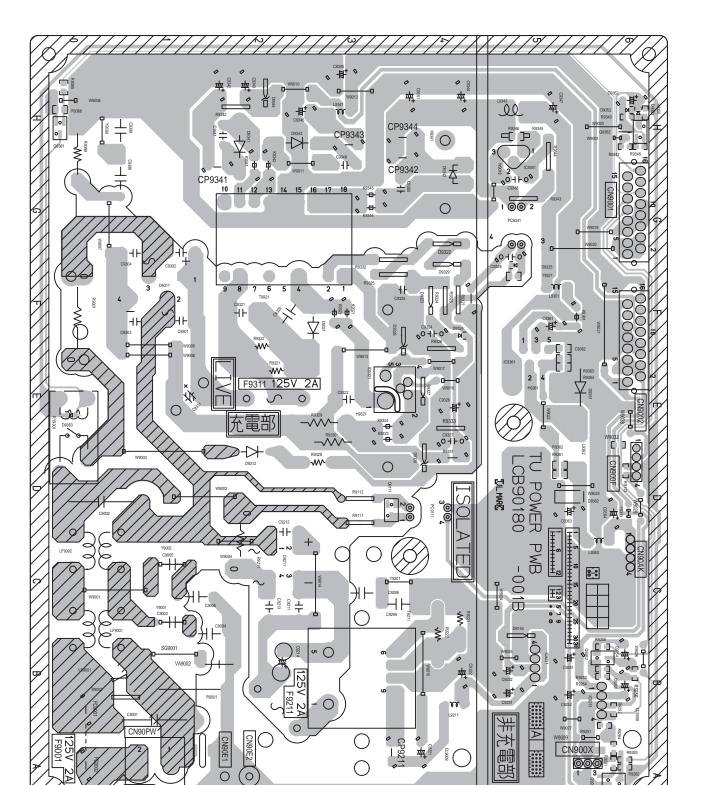




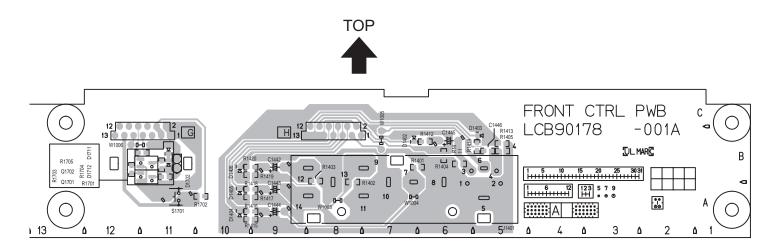
2-63 No.YA029



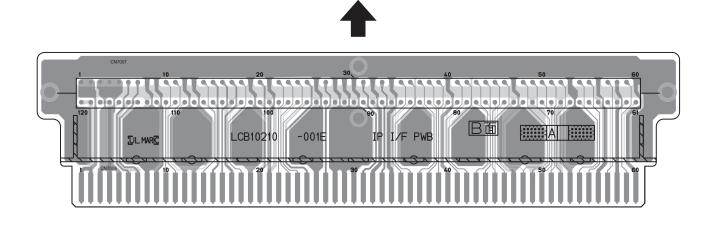




2-65 No.YA029

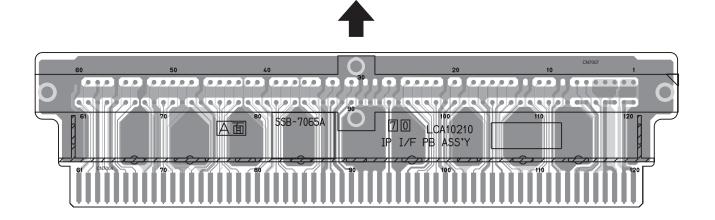


#### DIST RELAY PWB PATTERN [SOLDER SIDE]



**TOP** 

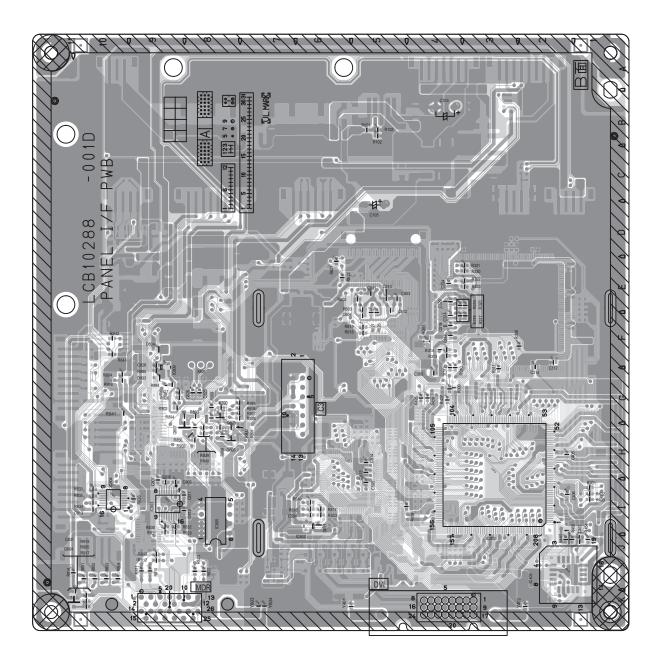
#### DIST RELAY PWB PATTERN [PARTS SIDE]



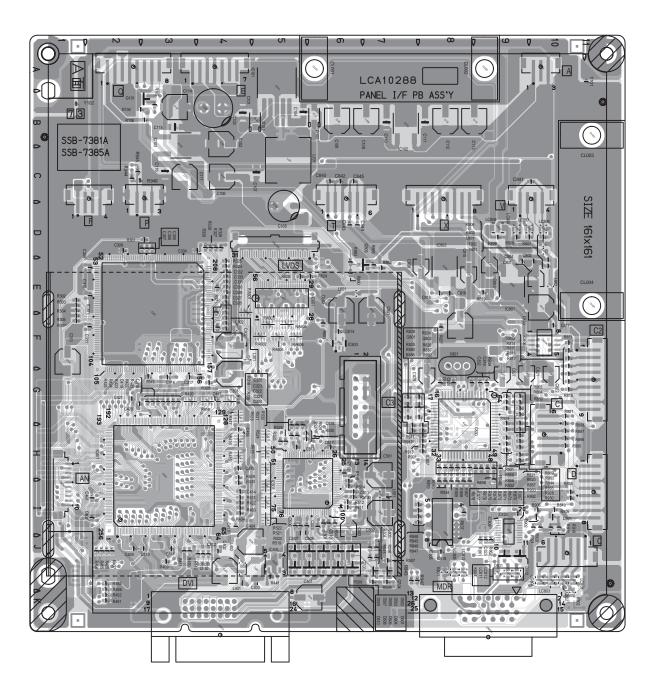
TOP

## PATTERN DIAGRAMS [DISPLAY UNIT] DISPLAY INTERFACE PWB PATTERN [SOLDER SIDE]

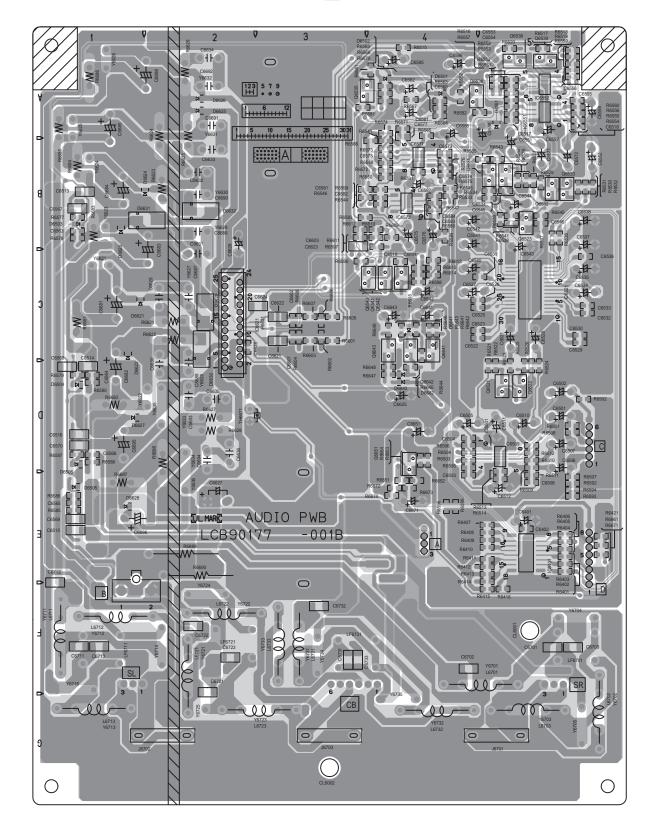






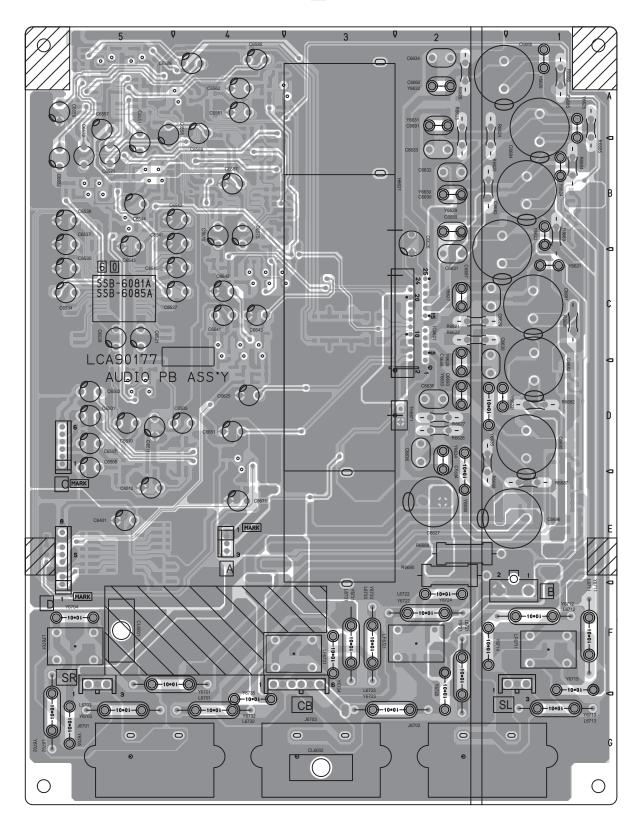


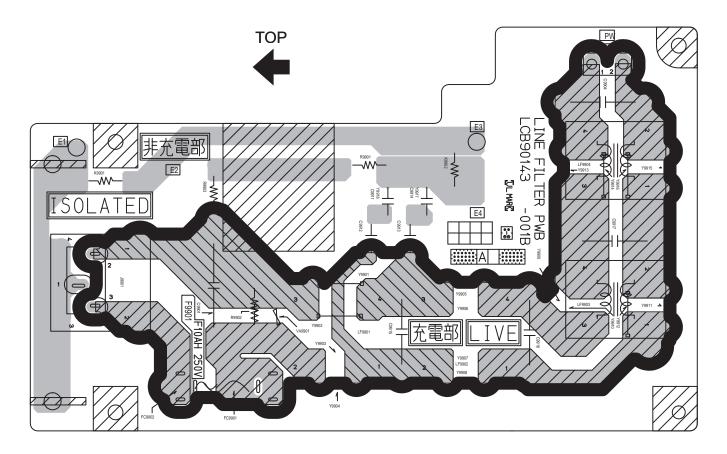




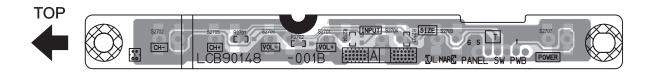
2-69 No.YA029



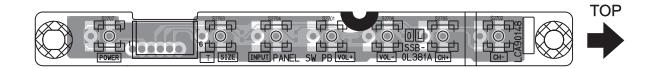




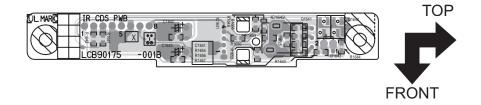
DISPLAY SWITCH PWB PATTERN [SOLDER SIDE]



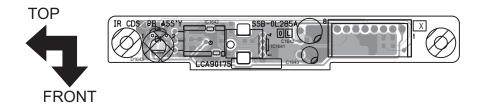
#### DISPLAY SWITCH PWB PATTERN [PARTS SIDE]



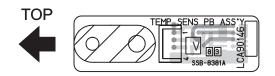
2-71 No.YA029



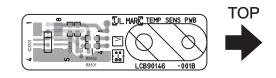
#### DISPLAY LED PWB PATTERN [PARTS SIDE]



#### TEMP SENSOR PWB PATTERN [SOLDER SIDE]



#### TEMP SENSOR PWB PATTERN [PARTS SIDE]



## **CHANNEL CHART (US)**

MODE			CHAI	NNEL	TUNER	
TV	CATV	BAND	REAL	DISP.	BAND	
		VL	02 03 04 05 06		I	
0		VH	0 0 0 1 1 1	7 8 9 0	п	
			A B	14 15	I	
		MID	C D E F G H	16 17 18 19 20 21		
		SUPER	J K L M N O P Q R S T U V	K 24 L 25 M 26 N 27 O 28 P 29 Q 30 R 31 S 32 T 33 U 34 V 35 W 36	П	
×	0		W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11	37 38 39 40 41 42 43 44 45 46 47	I	
		HYPER	W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+25 W+25 W+26 W+27 W+28	48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	IV	
		ULTRA	W+29 W+30 W+31 W+32 W+33 W+34	65 66 67 68 69 70		

МО	DE		CHAI	NNEL	TUNER		
TV	CATV	BAND	REAL	DISP.	BAND		
×		ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+46 W+47 W+48 W+49 W+50 W+51 W+52 W+53 W+54 W+55 W+56 W+57 W+58 W+59 W+60 W+61 W+62 W+63 W+64 W+65 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV		
		SUB MID	A-8 A-4 A-3 A-2 A-1	96 97 98 99	I		
0	×	UHF		4 ) 9	IV		
	TOTAL 180CH { VHF 124CH { UHF 56CH						
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.							

2-73 No.YA029

## **CHANNEL CHART (CA)**

МО	DE	DAND	CHANNEL		TUNER
TV	CATV	BAND	REAL	DISP.	BAND
		VL	0 0 0 0	2 3 4 5 6	I
		VH	0 0 1 1 1	7 8 9 0 1 2 3	
		MID	A B C D E F G H	14 15 16 17 18 19 20 21	П
			J K L M N O	23 24 25 26 27 28	
			SUPER	P Q R S T U V W	29 30 31 32 33 34 35 36
X		HYPER	W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11 W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Ш
		ULTRA	W+30 W+31 W+32 W+33 W+34	66 67 68 69 70	IV

МО	DE		CHAI	NNEL	TUNER	
TV	CATV	BAND	REAL	DISP.	BAND	
×	OAIV	ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+46 W+47 W+50 W+51 W+52 W+53 W+54 W+55 W+56 W+57 W+58 W+59 W+60 W+61 W+62 W+63 W+64 W+65 W+67 W+68 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+78 W+79 W+80 W+71 W+72 W+73 W+74 W+75 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV	
		SUB	A-8 A-4	01 96	I	
		MID	A-3 A-2 A-1	97 98 99	п	
0	×	UHF	14		IV	
TOTAL 180CH { VHF 124CH { UHF 56CH						
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.						

## JVC SERVICE & ENGINEERING COMPANY OF AMERICA DIVISION OF JVC AMERICAS CORP.

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## JVC CANADA INC.

Head office : 21 Finchdene Square Scarborough, Ontario M1X 1A7 (416)293-1311





## **PARTS LIST**

### **CAUTION**

- The parts identified by the △ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

#### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

	RESISTORS		CAPACITORS
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

	RESISTORS									
F	G	J	К	M	N	R	Н	Z	Р	
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%	

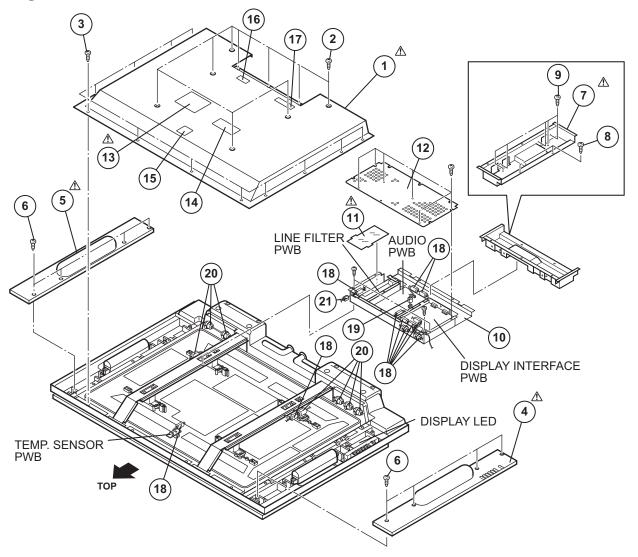
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# [DISPLAY UNIT : VM-42WV74/SA] EXPLODED VIEW PARTS LIST -1

⚠ Ref.No.	Part No.	Part Name	Description	Local
<u> </u>	LC11659-001B	REAR COVER		
2	LC41647-001B	SCREW	(x9)	
3	QYSBSFG4016M	TAP SCREW	4.0mm x 16mm(x12)	
<u> </u>	LC11668-001B	BACK COVER		
<b>∆</b> 5	LC11668-002B	BACK COVER		
. 6	QYSBSFG4012M	TAP SCREW	M4 x 12mm(x8)	
<b>∆</b> 7	LC11675-001C	TERMINAL COVER ASSY		
8	LC41647-001B	SCREW	(x2)	
9	QYSBSG3008M	TAPPING SCREW	3mm x 8mm(x5)	
10	LC11622-001D	CHASSIS BASE ASSY		
11	LC32472-001A	LF INSULATOR		
. 12	QYSBSG3006Z	TAPPING SCREW	3mm x 6mm(x6)	
<b>△</b> 13	LC21455-002A-0L	RATING LABEL		
14	LC32510-001A	BBE LABEL		
15	LC41693-001A	CAUTION LABEL		
16	LC41731-001A	INLET LABEL		
17	LC41610-002A	TERMINAL LABEL		
18	QQR0491-001	CORE FILTER	(x11)	
19	QQR0942-001	CORE FILTER	( =)	
20	QQR0675-001	CORE FILTER	(x7)	
21	QQR1446-001	CORE FILTER		

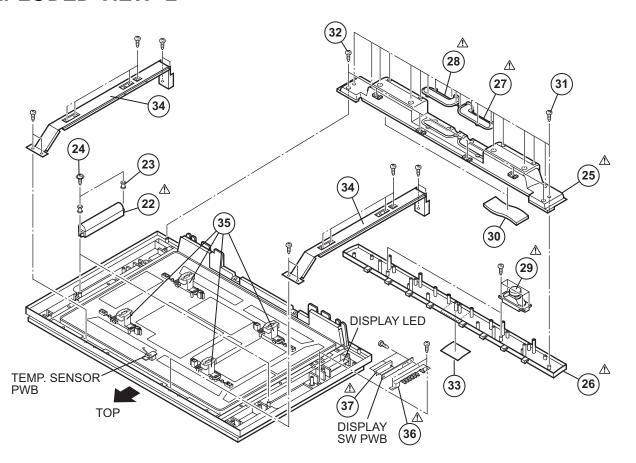
## **EXPLODED VIEW -1**

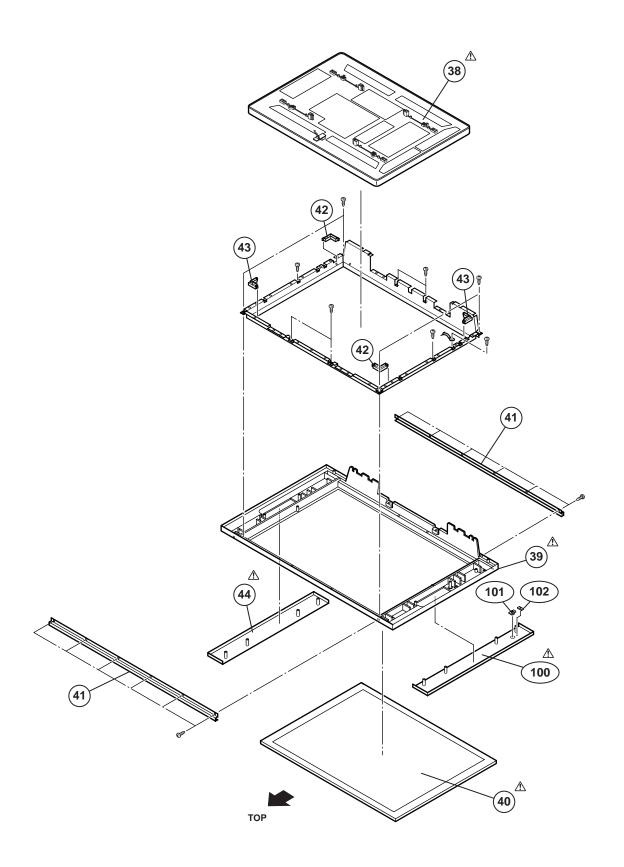


## **EXPLODED VIEW PARTS LIST -2**

⚠	Ref.No.	Part No.	Part Name	Description	Local
	22	LC41684-001A	SPEAKER ASSY	(x2) (x4)	
	23 24	LC40226-003A-H	SPACER	(x4)	
	24	LC41458-001A	TAPPING SCREW	(x4)	
<u>^</u>	25	LC11667-001B	WFR BACK COVER		
<b>△</b> !\	26	LC21425-001B	W SP HOLDER ASSY		
	27	LC21377-002B	DUCT COVER R		
$\triangle$	28	LC21377-001B	DUCT COVER L		
⚠	29	QAS0154-001	SPEAKER	(x2) (x2)	
	30	LC32515-001A	DOME ABSORBER		
	31	QYSBSFG4016M	TAP SCREW	4.0mm x 16mm(x20)	
	32	QYSBSFG4016M	TAP SCREW	4.0mm x 16mm(x6)	
	33	LC32433-001A	BRAND PLATE		
	34 35	LC11664-001A	BACK BRACKET	(x2) (x4)	
	35	LC21299-001A	BACK FRM SPACER	(x4)	
<u>^</u>	36	LC21378-001B	CONTROL KNOB		
⚠	37	LC41725-001A	INSULATOR		
<u>∧</u> ∧ ∧	38	QLE0023-002	P D P UNIT		
⚠	39	LC11660-001B	FRONT PANEL		
⚠	40	LC32436-001A	FRONT FILTER		
	41	LC32405-001B	GLASS HOLDER	(x2)	
	42	LC32403-001A	MOUNTING BOSS	BOTTOM(x2)	
	43	LC32403-002A	MOUNTING BOSS	TOP(x2)	
⚠	44	LC21375-002B	SP HOLDER	LEFT	
$\triangle$	100	LC32453-001C	SP HOLDER ASSY	(Inc.101-102)RIGHT	
	101	LC41631-001B	LED LENS	,	
	102	LC32408-001A	REMOCON WINDOW		

## **EXPLODED VIEW -2**





## PRINTED WIRING BOARD PARTS LIST

	PW BOARD A	•	•	Ref No.	Part No.	Part Name	Description	Local
⚠Ref No.  IC6501 IC6521 IC6551 IC6552	Part No.  BA4558F-X NJW1137M-W BA4558F-X BA4558F-X	Part Name  IC IC IC IC IC	Description Local	C6546 C6551 C6552 C6553 C6554 C6555	NCB31HK-103X QETN1HM-105Z QETN1HM-105Z NCB31HK-104X NCB31HK-104X NCB31HK-104X	C CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR	0.01uF 50' 1uF 50\ 1uF 50\ 0.1uF 50' 0.1uF 50' 0.1uF 50'	/ M / M / K / K
IC6571 IC6572 IC6621	BA4558F-X BA4558F-X TA8270HA	IC IC IC		C6556 C6557 C6558 C6559	NCB31HK-104X QETN1EM-476Z QETN1EM-476Z	C CAPACITOR E CAPACITOR E CAPACITOR	0.1uF 50\ 47uF 25\ 47uF 25\	/ K / M / M
Q6521 Q6522 Q6523 Q6531 Q6532 Q6533 Q6534 Q6535 Q6536 Q6641 Q6642 Q6643	2SC3928A/QR/-X 2SC3928A/QR/-X 2SA1530A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR		C6561 C6562 C6563 C6564 C6565 C6566 C6567 C6568 C6569 C6570 C6571	QETN1CM-107Z QETN1HM-105Z QETN1HM-225Z NCB31HK-104X NCB31HK-104X NCB31HK-104X NCB31HK-105X NCB11EK-105X NCB11EK-105X NCB11EK-105X QENC1HM-105Z QENC1HM-105Z	E CAPACITOR E CAPACITOR C CAPACITOR BP E CAPACITOR BP E CAPACITOR BP E CAPACITOR	100uF 16\ 1uF 50\ 2.2uF 50\ 0.1uF 50\ 0.1uF 50\ 0.1uF 50\ 0.1uF 50\ 1uF 25\ 1uF 25\ 1uF 25\ 1uF 25\ 1uF 50\ 1uF 50\ 1uF 50\	/ M / M / K / K / K / K / K / K / M
D6501 D6502 D6503 D6504 D6505 D6506 D6551 D6621 D6622 D6623 D6624 D6625 D6626 D6627 D6628 D6630 D6631 D6631 D6632 D6632 D6641 D6642 D6643	MA111-X MA111-X MA111-X MA111-X MA111-X MA111-X MA8062/M/-X MA8330/M/-X MA8330/M/-X MA8330/M/-X MA8330/M/-X MA8330/M/-X MA8330/M/-X MA8330/M/-X MA8330/M/-X D1FS4-X D1FS4-X D1FS4-X D1FS4-X D1FS4-X MA111-X MA111-X	SI DIODE Z DIODE S DIODE		C6573 C6574 C6575 C6576 C6577 C6578 C6581 C6582 C6583 C6584 C6585 C6586 C6587 C6588 C6601 C6602 C6603 C6604 C6622 C6623 C6623 C6624 C6625 C6625	NCB31HK-473X NCB31HJ-103X QETN1HM-226Z QETN1HM-226Z NCB31HK-473X NCB31HJ-103X NCB21EK-124X NCB21EK-124X NCB21EK-124X QETN1HM-106Z QETN1HM-106Z QETN1HM-106Z QETN1HM-476Z NDC31HJ-101X NDC31HJ-101X NDC31HJ-101X NDC31HJ-101X NDC31HJ-101X NCB11EK-105X NCB11EK-105X NCB11EK-105X NCB11EK-105X QETN1HM-106Z QETN1HM-106Z QETN1HM-106Z QETN1HM-106Z QETN1HM-107Z	C CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR	0.047uF 50' 0.01uF 50 22uF 50\ 22uF 50\ 0.047uF 50' 0.047uF 50' 0.01uF 50' 0.12uF 25' 0.12uF 25' 0.12uF 25' 10uF 50\ 47uF 25\ 47uF 25\ 100pF 50 100pF 50 10pF 50 1uF 25' 1uF 25' 1uF 25' 1uF 25\ 1uF 25' 1uF 25\ 100pF 50 100pF 50 10pF 50	V
C6501 C6502 C6503 C6504 C6505 C6506 C6507 C6508 C6509 C6510 C6511 C6512 C6518 C6521 C6522 C6523 C6525	QETN1HM-106Z QETN1HM-106Z NDC31HJ-101X NDC31HJ-101X QETN1HM-475Z QETN1HM-106Z QETN1HM-106Z NDC31HJ-101X NDC31HJ-101X QETN1EM-476Z QETN1EM-476Z QETN1EM-476Z NDC31HJ-100X NDC31HJ-100X NDC31HJ-100X NCB31HK-103X QETN1HM-475Z NCB31HK-332X NCB31HK-333X NCB31HK-333X NCB31HK-472X	E CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR	10uF 50V M 10uF 50V M 10uF 50V J 10uF 50V M 10uF 50V M 10uF 50V M 10uF 50V J 10uF 50V J 4.7uF 50V M 47uF 25V M 47uF 25V M 10uF 50V J 10uF 50V J 10uF 50V J 0.01uF 50V J 0.01uF 50V K 4.7uF 50V M 3300PF 50V K 4.7uF 50V K	C6627 C6628 C6629 C6630 C6631 C6632 C6633 C6634 C6635 C6636 C6641 C6642 C6643 C6651 C6681 C6682 C6683	QETM1EM-10/2 QETM1EM-228 NCB31HK-104X QFV21HJ-124Z QFV21HJ-124Z QFV21HJ-124Z QFV21HJ-124Z QFV21HJ-124Z QFV21HJ-124Z QFV21HJ-124Z QETV1HM-106Z QETN1EM-476Z QETN1HM-106Z QETN1HM-106Z QETM1CM-478 QETM1CM-478 QETM1CM-478 QETM1CM-478 QETM1CM-478	E CAPACITOR E CAPACITOR C CAPACITOR MF CAPACITOR E CAPACITOR	200uf 25\ 0.1uF 50\ 0.12uF 50\ 10uF 50\ 47uF 25\ 4.7uF 50\ 4700uF 16\ 4700uF 16\ 4700uF 16\	/ M / W / V / V / W / M / M / M / M
C6526 C6527 C6528 C6529 C6530 C6532 C6534 C6535 C6536 C6536 C6537 C6538 C6539 C6540 C6541 C6542 C6543 C6544	NCB31HK-104X QETN1HM-475Z QETN1HM-475Z NCB31HK-333X NCB31HK-104X QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z NCB31HK-104X QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1HM-105Z NCB31HK-103X	C CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR	0.1uF 50V K 4.7uF 50V M 4.7uF 50V M 3300pF 50V K 0.033uF 50V K 4700pF 50V K 0.1uF 50V M 1uF 50V M 0.1uF 50V M 4.7uF 50V M 6.7uF 50V M	R6421 R6501 R6502 R6503 R6504 R6505 R6506 R6507 R6508 R6509 R6511 R6512 R6513 R6514 R6515 R6514 R6515 R6521	NRSA63J-0R0X NRSA63J-224X NRSA63J-124X NRSA63J-153X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-224X NRSA63J-224X NRSA63J-153X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-222X	MG RESISTOR	0Ω 1/16\) 220kΩ 1/16\) 220kΩ 1/16\) 15kΩ 1/16\) 15kΩ 1/16\) 10kΩ 1/16\) 10kΩ 1/16\) 220kΩ 1/16\) 220kΩ 1/16\) 220kΩ 1/16\) 15kΩ 1/16\) 15kΩ 1/16\) 15kΩ 1/16\) 10kΩ 1/16\) 10kΩ 1/16\) 10kΩ 1/16\) 0Ω 1/16\) 0Ω 1/16\) 0Ω 1/16\) 2.2kΩ 1/16\)	W J W J W J W J W J W J W J W J

⚠Ref No.	Part No.	Part Name	Description	Local	⚠Ref No.	Part No.	Part Name	Description	Local
R6523 R6524 R6525	NRSA63J-333X NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR MG RESISTOR	33kΩ 1/16W 2.2kΩ 1/16W 2.2kΩ 1/16W	J J	⚠R6627 ⚠R6628 R6641	QRJ146J-2R2X QRJ146J-2R2X NRSA63J-563X	UNF C RESISTOR UNF C RESISTOR MG RESISTOR	2.2Ω 1/4 2.2Ω 1/4 56kΩ 1/16	4W J 6W J
R6526 R6527	NRSA63J-333X NRSA63J-222X	MG RESISTOR MG RESISTOR	33kΩ 1/16W 2.2kΩ 1/16W	J .J	R6642 R6643	NRSA63J-563X NRSA63J-104X	MG RESISTOR MG RESISTOR	56kΩ 1/16 100kΩ 1/16	W J SW J
R6527 R6528	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W	J	R6644	NRSA63J-102X	MG RESISTOR	1kΩ 1/16	SW J
R6529 R6530	NRSA63J-333X NRSA63J-222X	MG RESISTOR MG RESISTOR MG RESISTOR	33kΩ 1/16W 2.2kΩ 1/16W	J J	R6645 R6646	NRSA63J-153X NRSA63J-563X	MG RESISTOR MG RESISTOR MG RESISTOR	15kΩ 1/16 56kΩ 1/16	SW J
R6530 R6531 R6532	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W	J	R6647	NRSA63J-103X	MG RESISTOR	10kΩ 1/16	SW J
R6533	NRSA63J-333X NRSA63J-103X	MG RESISTOR MG RESISTOR	33kΩ 1/16W 10kΩ 1/16W	J	R6648 R6649	NRSA63J-103X NRSA63J-332X NRSA63J-222X	MG RESISTOR MG RESISTOR MG RESISTOR	10kΩ 1/16 3.3kΩ 1/16	SW J
R6533 R6534 R6535 R6536 R6537	NRSA63J-103X	MG RESISTOR MG RESISTOR MG RESISTOR	10kΩ 1/16W	J	R6653 R6654	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16	SW J
R6536	NRSA63J-103X NRSA63J-101X	MG RESISTOR	10kΩ 1/16W 100Ω 1/16W	J	R6661	NRSA63J-103X NRSA63J-101X	MG RESISTOR MG RESISTOR	10kΩ 1/16 100Ω 1/16	5W J
R6537	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16W 100Ω 1/16W	J	R6671 R6673	NRSA63J-101X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	100Ω 1/16 0Ω 1/16	
R6538 R6539 R6540	NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16W 10kΩ 1/16W	J	<b></b> ∆R6681	QRK126J-102X QRK126J-102X	UNF C RESISTOR	1kΩ 1/2	2W J
R6540 R6541	NRSA63J-103X NRSA63J-222X	MG RESISTOR MG RESISTOR	2 2kO 1/16W	.1	∆R6682 ∆R6683	QRK126J-102X QRK126J-102X	UNF C RESISTOR UNF C RESISTOR	1kΩ 1/2 1kΩ 1/2	2W J 2W .I
R6541 R6542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W	J	<b></b> ∆R6684	QRK126J-102X	UNF C RESISTOR	1kΩ 1/2	2W J
R6543 R6544	NRSA63J-222X NRSA63J-184X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W 180kΩ 1/16W	J	R6689 R6690	QRL039J-221 QRL039J-221	OMF RESISTOR OMF RESISTOR	220Ω 3 220Ω 3	
R6545 R6546 R6547 R6551 R6552	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W	J					
R6546 R6547	NRSA63J-561X NRSA63J-561X	MG RESISTOR MG RESISTOR	560Ω 1/16W 560Ω 1/16W	J	CN600A CN600B	QJK016-032003 WJK0050-003A	SIN CR C-B WIRE E-SI C WIRE C-B		
R6551	NRSA63J-153X NRSA63J-103X	MG RESISTOR	15kΩ 1/16W 10kΩ 1/16W	J	CN600C CN600D	QJK016-061001 QJK016-080703	SIN CR C-B WIRE		
R6553 R6554	NRSA63J-104X	MG RESISTOR MG RESISTOR MG RESISTOR	100kΩ 1/16W	J	CN60CB	QGA2501C5-06Z	SIN CR C-B WIRE CONNECTOR CONNECTOR	W-B	(1-6)
R6554	NRSA63J-153X NRSA63J-103X	MG RESISTOR MG RESISTOR	15kΩ 1/16W	J	CN60SL CN60SR	QGA2501C5-03Z QGA2501C5-03Z	CONNECTOR CONNECTOR	W-B W-B	(1-3)
R6555 R6556 R6557	NRSA63J-104X	MG RESISTOR MG RESISTOR	10kΩ 1/16W 100kΩ 1/16W	J	H6621	LC32130-001A	HEAT SINK/AL-F/	VV-D	(1-3)
R6557	NRSA63J-392X NRSA63J-822X	MG RESISTOR MG RESISTOR	3.9kΩ 1/16W 8.2kΩ 1/16W	J					
R6558 R6559 R6560	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W	J	DISPLA	Y INTERFACE	PW BOARD A	SS'Y (SSB-7	7397A)
R6561	NRSA63J-822X NRSA63J-103X	MG RESISTOR MG RESISTOR	8.2kΩ 1/16W 10kΩ 1/16W	J .l	▲Ref No.	Part No.	Part Name	Description	Local
R6562	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W	J					
R6562 R6563 R6564	NRSA63J-224X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	220kΩ 1/16W 0Ω 1/16W		IC101	PQ1CY1032Z-W	IC		
R6565	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W	J	IC102 IC103	BA12FP-X BA05FP-X	IC IC		
R6566 R6567	NRSA63J-0R0X NRSA63J-124X	MG RESISTOR MG RESISTOR	0Ω 1/16W 120kΩ 1/16W	J	IC301	MN82860 JCC5056A	IC IC		
R6568	NRSA63J-0R0X NRSA63J-823X	MG RESISTOR MG RESISTOR	0Ω 1/16W 82kΩ 1/16W	J	IC401 IC405	R1170H251B-X	IC IC IC IC IC		
R6569 R6571 R6572	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W	J	IC501 IC502	SII169CT100 S-80828CLNB-W	IC		
R6572 R6573	NRSA63J-273X NRSA63J-273X	MG RESISTOR MG RESISTOR	27kΩ 1/16W 27kΩ 1/16W		IC601	THC63LVDM83R-W	iC		
R6574	NRSA63J-273X	MG RESISTOR	27kO 1/16W	J	IC603 IC801	SN74LVC1G08V-X BA033FP-X	IC IC		
R6575 R6576	NRSA63J-273X NRSA63J-273X	MG RESISTOR MG RESISTOR	27kΩ 1/16W 27kΩ 1/16W	J J	IC802	BA05FP-X	IC		
R6577	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W	J	IC803 IC804	ICL3221CA-X CD74HC4053PW-X	IC IC IC		
R6578 R6579	NRSA63J-822X NRSA63J-183X	MG RESISTOR MG RESISTOR	8.2kΩ 1/16W 18kΩ 1/16W		IC805	AT24C16-42WX84		(SERV	ICE)
R6580	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W	J	IC807 IC808	HD64F3687H TC74VHCT541AFTX	IC(MCU) IC		
R6581 R6582	NRSA63J-183X NRSA63J-183X	MG RESISTOR MG RESISTOR	18kΩ 1/16W 18kΩ 1/16W		IC809	S-80840CLNB-W	IC		
R6583	NRSA63J-272X NRSA63J-272X	MG RESISTOR MG RESISTOR	2.7kΩ 1/16W 2.7kΩ 1/16W		Q101	2SC3928A/QR/-X	TRANSISTOR		
R6584 R6585	NRSA63J-183X	MG RESISTOR	2.7 kΩ 1/16W 18kΩ 1/16W		Q703 Q704	2SK2090-X 2SK2090-X	MOS FET MOS FET		
R6586 R6587	NRSA63J-822X NRSA63J-183X	MG RESISTOR MG RESISTOR	8.2kΩ 1/16W 18kΩ 1/16W		Q801	2SK2090-X	MOS FET		
R6588	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W	J	Q802 Q803	2SK2090-X 2SA1530A/QR/-X	MOS FET TRANSISTOR		
R6591 R6595	NRSA63J-562X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	5.6kΩ 1/16W 0Ω 1/16W		Q804	2SC3928A/QR/-X	TRANSISTOR		
R6596	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W	J	Q805 Q806	2SK2090-X 2SK2090-X	MOS FET MOS FET		
R6601 R6602	NRSA63J-272X NRSA63J-333X	MG RESISTOR MG RESISTOR	2.7kΩ 1/16W 33kΩ 1/16W		Q807	2SA1530A/QR/-X	TRANSISTOR		
R6603	NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W	J	D101	EC30HA03L-X	SB DIODE		
R6604 R6605	NRSA63J-333X NRSA63J-272X	MG RESISTOR	33kΩ 1/16W 2.7kΩ 1/16W	J	D102 D501	PTZ6.8B-X BAV99L-X	Z DIODE SI DIODE		
R6606 R6607	NRSA63J-333X NRSA63J-222X	MG RESISTOR MG RESISTOR	33kΩ 1/16W 2.2kΩ 1/16W		D502	BAV99L-X	SI DIODE		
R6608	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W	J	D503 D504	BAV99L-X BAV99L-X	SI DIODE SI DIODE		
R6609 R6610	NRSA63J-272X NRSA63J-333X	MG RESISTOR MG RESISTOR	2.7kΩ 1/16W 33kΩ 1/16W		D505	BAV99L-X	SI DIODE		
R6611	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W	J	D506 D507	BAV99L-X BAV99L-X	SI DIODE SI DIODE		
R6612 R6613	NRSA63J-333X NRSA63J-272X	MG RESISTOR MG RESISTOR	33kΩ 1/16W 2.7kΩ 1/16W		D508	BAV99L-X	SI DIODE		
R6614	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W	J	D509 D510	BAV99L-X BAV99L-X	SI DIODE SI DIODE		
R6615 R6616	NRSA63J-222X NRSA63J-333X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W 33kΩ 1/16W		D611	MA8056/M/-X	Z DIODE		
∆R6621 ∆R6622	QRJ146J-2R2X QRJ146J-2R2X	UNF C RESISTOR UNF C RESISTOR	2.2Ω 1/4W 2.2Ω 1/4W	J	D803 D804	MA111-X MA8056/M/-X	SI DIODE Z DIODE		
<b>∆</b> R6623	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W	J	D901 D902	1SS355-X 1SS355-X	SI DIODE SI DIODE		
<b>∆</b> R6624 <b>∆</b> R6625	QRJ146J-2R2X QRJ146J-2R2X	UNF C RESISTOR UNF C RESISTOR	2.2Ω 1/4W 2.2Ω 1/4W						-1.4.4
∆R6626	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W		C103	QETM1EM-477	E CAPACITOR	470uF 25	ov M

Ref No.	Part No.	Part Name	Description	Local	Ref No.	Part No.	Part Name	Description	Local
C104 C105	NCB11EK-104X QETM0JM-108	C CAPACITOR E CAPACITOR	0.1uF 2 1000uF 6.		C614 C802	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 16 0.1uF 16	
C108	NEH71EM-336X	E CAPACITOR	33uF 2	5V M	C803	NEH70JM-226X	E CAPACITOR	22uF 6.3	/ M
C109 C112	NEH71EM-336X NEH71CM-476X	E CAPACITOR E CAPACITOR	33uF 29 47uF 10		C804 C805	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 16 0.1uF 16	
C113	NEH71CM-476X	E CAPACITOR	47uF 10	6V M	C806	NCF31CZ-104X	C CAPACITOR	0.1uF 16	VΖ
C114 C117	NEH71AM-107X NEH70JM-107X	E CAPACITOR E CAPACITOR	100uF 10 100uF 6.3		C807 C809	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 16 0.1uF 16	
C301	NEH70JM-107X	E CAPACITOR	100uF 6.3	3V M	C810	NEH70JM-107X	E CAPACITOR	100uF 6.3 <sup>1</sup>	/ M
C302 C303	NEH70JM-107X NCF31CZ-104X	E CAPACITOR C CAPACITOR	100uF 6.3 0.1uF 1		C811 C812	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 16 0.1uF 16	
C304	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	C813	NCF31CZ-104X	C CAPACITOR	0.1uF 16	VΖ
C305 C306	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		C814 C815	NCF31CZ-104X NEH70JM-226X	C CAPACITOR E CAPACITOR	0.1uF 16 22uF 6.3	
C307	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	C816	NCF31CZ-104X	C CAPACITOR	0.1uF 16	VΖ
C308 C309	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		C817 C818	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 16 0.1uF 16	
C310	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	C819	NCF31CZ-104X	C CAPACITOR	0.1uF 16	VΖ
C311 C312	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1	6V Z	C820 C821	NCF31CZ-104X NEH71CM-106X	C CAPACITOR E CAPACITOR	0.1uF 16 10uF 16	/ M
C313	NEH70JM-107X	E CAPACITOR	100uF 6.: 0.1uF 1		C823 C824	NDC31HJ-102X	C CAPACITOR	1000pF 50 0.1uF 16	V J
C314 C315	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1		C825	NCF31CZ-104X NDC31HJ-220X	C CAPACITOR C CAPACITOR	22pF 50	
C316 C317	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		C826 C828	NDC31HJ-220X NCF31CZ-104X	C CAPACITOR C CAPACITOR	22pF 50 0.1uF 16	
C318	NCF31CZ-104X	C CAPACITOR	0.1uF 1		C829	NEH70JM-226X	E CAPACITOR	22uF 6.3	
C319 C320	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		C832 C842	NCF31CZ-104X NCB31HK-102X	C CAPACITOR C CAPACITOR	0.1uF 16 1000pF 50	
C321	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	C843	NCB31HK-102X	C CAPACITOR	1000pF 50	٧K
C322 C323	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		C844 C846	NCB31HK-102X NCB21HK-102X	C CAPACITOR C CAPACITOR	1000pF 50 1000pF 50	
C324	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	C847	NCB21HK-102X	C CAPACITOR	1000pF 50	٧K
C325 C326	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		C848	NCB21HK-102X	C CAPACITOR	1000pF 50	VK
C327	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	R101	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16\	
C328 C329	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R102 R103	NRSA63D-122X NRSA63J-153X	MG RESISTOR MG RESISTOR	1.2kΩ 1/16V 15kΩ 1/16	
C330 C331	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R104 R105	NRSA63J-332X	MG RESISTOR MG RESISTOR	3.3kΩ 1/16' 10kΩ 1/16'	
C332	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1	6V Z	R106	NRSA63J-103X NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	ΝJ
C333 C334	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R301 R302	NRSA63J-101X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	100Ω 1/16' 0Ω 1/16'	
C401	NEH70JM-107X	E CAPACITOR	100uF 6.3	3V M	R303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	ΝJ
C402 C403	NEH70JM-107X NBE71CM-476X	E CAPACITOR TA E CAPACITOR	100uF 6.: 47uF 1		R306 R307	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16' 100Ω 1/16'	
C404	NEH70JM-107X	E CAPACITOR	100uF 6.3	3V M	R309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	ΝJ
C405 C406	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R311 R312	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16' 0Ω 1/16'	
C407 C408	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	R313 R314	NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16' 100Ω 1/16'	ΝJ
C408	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R315	NRSA63J-101X NRSA63J-0R0X	MG RESISTOR	0Ω 1/16 0Ω 1/16	
C410 C411	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R316 R317	NRSA63J-564X NRSA63J-563X	MG RESISTOR MG RESISTOR	560kΩ 1/16' 56kΩ 1/16'	
C412	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	R318	NRSA63J-0R0X NRSA63J-273X	MG RESISTOR	0Ω 1/16	ΝJ
C413 C414	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R319 R320	NRSA63J-273X NRSA63J-224X	MG RESISTOR MG RESISTOR	27kΩ 1/16′ 220kΩ 1/16′	
C415	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	R321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	ΝJ
C416 C417	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R323 R324	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16' 100Ω 1/16'	
C418	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	R325	NRSA63J-102X	MG RESISTOR	1kΩ 1/16	ΝJ
C419 C420	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R327 R330	NRSA63J-0R0X NRSA63J-101X	MG RESISTOR MG RESISTOR	0Ω 1/16' 100Ω 1/16'	
C421 C501	NCF31CZ-104X NEH70JM-107X	C CAPACITOR E CAPACITOR	0.1uF 1 100uF 6.3		R331 R401	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16 100Ω 1/16	
C502	NEH70JM-107X	E CAPACITOR	100uF 6.	3V M	R402	NRSA63J-101X	MG RESISTOR	100Ω 1/16 100Ω 1/16	
C503 C504	NEH70JM-226X NCF31CZ-104X	E CAPACITOR C CAPACITOR	22uF 6.: 0.1uF 1		R403 R404	NRSA63J-101X NRSA63J-103X	MG RESISTOR MG RESISTOR	100Ω 1/16' 10kΩ 1/16'	
C505	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	R405	NRSA63J-103X	MG RESISTOR	10kΩ 1/16	ΝJ
C506 C507	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R406 R407	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16′ 10kΩ 1/16′	
C508	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	R408	NRSA63J-101X	MG RESISTOR	100Ω 1/16	ΝJ
C509 C510	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R409 R410	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16' 100Ω 1/16'	
C511 C512	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R412 R413	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16' 100Ω 1/16'	
C513	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	R414	NRSA63J-101X	MG RESISTOR	100Ω 1/16	ΝJ
C514 C515	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R415 R416	NRZ0040-103X NRZ0040-103X	NET RESISTOR NET RESISTOR	10kΩ 1/16W 、 10kΩ 1/16W 、	
C516	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	R417	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W 、	l x4
C517 C601	NCF31CZ-104X NEH70JM-107X	C CAPACITOR E CAPACITOR	0.1uF 1 100uF 6.:		R418 R419	NRZ0040-103X NRZ0040-103X	NET RESISTOR NET RESISTOR	10kΩ 1/16W 、 10kΩ 1/16W 、	
C602	NEH70JM-107X	E CAPACITOR	100uF 6.3	3V M	R420	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W 、	l x4
C603 C604	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		R421 R422	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16' 100Ω 1/16'	
C610 C611	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1	6V Z	R423 R424	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16' 100Ω 1/16'	ΝJ
C612	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR	0.1uF 1		R425	NRSA63J-101X	MG RESISTOR	100Ω 1/16 100Ω 1/16	

ΔRef No.	Part No.	Part Name	Description	Local	ΔRef No.	Part No.	Part Name	Description	Local
R426 R427	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16 100Ω 1/16		R880 R881	NRSA63J-472X NRSA63J-221X	MG RESISTOR MG RESISTOR	4.7kΩ 1/16 220Ω 1/16	
R428	NRSA63J-101X	MG RESISTOR	100Ω 1/16	W J	R882	NRSA63J-101X	MG RESISTOR	100Ω 1/16	W J
R441 R501	NRSA63J-102X NRSA63J-391X	MG RESISTOR MG RESISTOR	1kΩ 1/16 390Ω 1/16		R883 R884	NRSA63J-0R0X NRSA63J-103X	MG RESISTOR MG RESISTOR	0Ω 1/16 10kΩ 1/16	W J W J
R502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16	W J	R885	NRSA63J-333X	MG RESISTOR	33kΩ 1/16	W J
R505 R506	NRSA63J-101X NRSA63J-332X	MG RESISTOR MG RESISTOR	100Ω 1/16 3.3kΩ 1/16	WJ	R886 R887	NRSA63J-472X NRSA63J-101X	MG RESISTOR MG RESISTOR	4.7kΩ 1/16 100Ω 1/16	
R507	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16	W J	R890	NRSA63J-333X	MG RESISTOR	33kΩ 1/16	W J
R510 R511	NRSA63J-0R0X NRSA63J-102X	MG RESISTOR MG RESISTOR	0Ω 1/16 1kΩ 1/16		R891 R892	NRSA63J-333X NRSA63J-101X	MG RESISTOR MG RESISTOR	33kΩ 1/16 100Ω 1/16	WĴ
R512	NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16	W J	R893	NRSA63J-333X	MG RESISTOR MG RESISTOR	33kΩ 1/16 100kΩ 1/16	W J
R513 R514	NRSA63J-102X NRSA63J-102X	MG RESISTOR	1kΩ 1/16 1kΩ 1/16	W J	R894 R895	NRSA63J-104X NRSA63J-221X	MG RESISTOR	220Ω 1/16	W J
R515 R516	NRSA63J-102X NRSA63J-101X	MG RESISTOR MG RESISTOR	1kΩ 1/16 100Ω 1/16		R896 R897	NRSA63J-221X NRSA63J-221X	MG RESISTOR MG RESISTOR	220Ω 1/16 220Ω 1/16	
R517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	W J	R898	NRSA63J-221X	MG RESISTOR	220Ω 1/16	W J
R525 R526	NRSA63J-680X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	68Ω 1/16 0Ω 1/16		R899 R900	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16 100Ω 1/16	
R528	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	W J	R903	NRSA63J-561X	MG RESISTOR	560Ω 1/16	W J
R531 R532	NRSA63J-102X NRSA63J-101X	MG RESISTOR MG RESISTOR	1kΩ 1/16 100Ω 1/16		R904 R906	NRSA63J-102X NRSA63J-104X	MG RESISTOR MG RESISTOR	1kΩ 1/16 100kΩ 1/16	
R533 R602	NRSA63J-333X NRSA63J-102X	MG RESISTOR MG RESISTOR	33kΩ 1/16 1kΩ 1/16	W J	R908 R911	NRSA63J-103X NRSA63J-223X	MG RESISTOR MG RESISTOR	10kΩ 1/16 22kΩ 1/16	W J
R603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16	W J	R912	NRSA63J-223X	MG RESISTOR	22kΩ 1/16	W J
R618 R619	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16 100Ω 1/16	W J W J	R914 R915	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16 10kΩ 1/16	W J W J
R621	NRSA63J-101X	MG RESISTOR	100Ω 1/16	W J	R917	NRSA63J-101X	MG RESISTOR	100Ω 1/16	W J
R626 R628	NRSA63J-0R0X NRSA63J-101X	MG RESISTOR MG RESISTOR	0Ω 1/16 100Ω 1/16		R918 R919	NRSA63J-103X NRSA63J-101X	MG RESISTOR MG RESISTOR	10kΩ 1/16 100Ω 1/16	
R805	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	W J	R920	NRSA63J-103X	MG RESISTOR	10kΩ 1/16	W J
R808 R810	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16 0Ω 1/16		R921 R927	NRSA63J-101X NRSA63J-102X	MG RESISTOR MG RESISTOR	100Ω 1/16 1kΩ 1/16	
R811	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	W J	R933	NRSA63J-103X	MG RESISTOR	10kΩ 1/16	W J
R812 R813	NRSA63J-102X NRSA63J-102X	MG RESISTOR MG RESISTOR	1kΩ 1/16 1kΩ 1/16		R934 R940	NRSA63J-104X NRSA63J-393X	MG RESISTOR MG RESISTOR	100kΩ 1/16 39kΩ 1/16	
R814 R815	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16 100Ω 1/16		R943 RA601	NRSA63J-101X NRZ0040-0R0X	MG RESISTOR NET RESISTOR	100Ω 1/16 0Ω 1/16W	
R816	NRSA63J-101X	MG RESISTOR	100Ω 1/16	W J	RA602	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W	J x4
R817 R818	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16 100Ω 1/16		RA603 RA604	NRZ0040-0R0X NRZ0040-0R0X	NET RESISTOR NET RESISTOR	0Ω 1/16W 0Ω 1/16W	
R821	NRSA63J-103X	MG RESISTOR	10kΩ 1/16	W J	RA605	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W	J x4
R822 R824	NRSA63J-0R0X NRSA63J-472X	MG RESISTOR MG RESISTOR	0Ω 1/16 4.7kΩ 1/16		RA606	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W	J x4
R828	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16	W J	L101	NQL63EM-680X	COIL	68u	НМ
R829 R830	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16 10kΩ 1/16		L301 L302	NQR0351-001X NQR0351-001X	FERRITE BEADS FERRITE BEADS		
R831 R833	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16 10kΩ 1/16		L401 L402	NQR0351-001X NQR0351-001X	FERRITE BEADS FERRITE BEADS		
R837	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	W J	L501	NQR0351-001X	FERRITE BEADS		
R838 R839	NRSA63J-103X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	10kΩ 1/16 0Ω 1/16		L601 L801	NQR0351-001X NQR0351-001X	FERRITE BEADS FERRITE BEADS		
R842	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	WJ	L802	NQR0351-001X	FERRITE BEADS		
R843 R844	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16 0Ω 1/16		CN00A	QGA2001C2-03X	CONNECTOR	W-B (	1-3)
R845	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16 10kΩ 1/16	W J	CN00C	QGA2001C2-06X QGA2001C2-08X	CONNECTOR CONNECTOR	W-B (	1-6)
R846 R847	NRSA63J-103X NRSA63J-0R0X	MG RESISTOR	0Ω 1/16		CN00D CN00E	QGA2001C2-07X	CONNECTOR	W-B ( W-B (	
R848 R849	NRSA63J-0R0X NRSA63J-103X	MG RESISTOR MG RESISTOR	0Ω 1/16 10kΩ 1/16		CN00Q CN00T	QGA2001C2-08X QGA2001C2-06X	CONNECTOR CONNECTOR	W-B ( W-B (	
R850	NRSA63J-102X	MG RESISTOR	1kΩ 1/16	W J	CN00V	QGA2001C2-04X	CONNECTOR	W-B (	1-4)
R851 R852	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16 10kΩ 1/16		CN00X CN0C1	QGA2001C2-08X QGA2001C2-06X	CONNECTOR CONNECTOR	W-B ( W-B (	
R853	NRSA63J-333X	MG RESISTOR	33kΩ 1/16	W J	CN0C2	QGA2001C2-09X	CONNECTOR	W-B (	1-9)
R854 R855	NRSA63J-102X NRSA63J-101X	MG RESISTOR MG RESISTOR	1kΩ 1/16 100Ω 1/16		K301 K801	NRSA02J-0R0X NRSA02J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/10 0Ω 1/10	
R856 R857	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16 0Ω 1/16		K802 K803	NRSA02J-0R0X NRSA02J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/10 0Ω 1/10	
R858	NRSA63J-101X	MG RESISTOR	100Ω 1/16	W J	K804	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10	W J
R859 R861	NRSA63J-104X NRSA63J-102X	MG RESISTOR MG RESISTOR	100kΩ 1/16 1kΩ 1/16		LC801 LC802	NQR0450-002X NQR0450-002X	EMI FILTER EMI FILTER	22pF 50 22pF 50	
R863	NCB31HK-102X	C CAPACITOR	1000pF 50	VK	LC803	NQR0450-002X	EMI FILTER	22pF 50	V M
R864 R865	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16 10kΩ 1/16		LC804 LC806	NQR0450-002X NQR0450-002X	EMI FILTER EMI FILTER	22pF 50 22pF 50	
R866	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	W J	LC807	NQR0450-002X	EMI FILTER	22pF 50	V M
R867 R868	NRSA63J-102X NRSA63J-103X	MG RESISTOR MG RESISTOR	1kΩ 1/16 10kΩ 1/16		LC809 X801	NQR0450-002X QAX0534-001	EMI FILTER C RESONATOR	22pF 50 16.000l	
R869 R870	NCB31HK-102X NRSA63J-103X	C CAPACITOR MG RESISTOR	1000pF 50 10kΩ 1/16	VK					
R871	NRSA63J-103X	MG RESISTOR	10kΩ 1/16	W J	TEMP. S	SENSOR PW I	BOARD ASS'Y	(SSB-8381A	.)
R872 R873	NRSA63J-103X NRSA63J-101X	MG RESISTOR MG RESISTOR	10kΩ 1/16 100Ω 1/16			Part No.	Part Name	Description	Local
R875	NRSA63J-101X	MG RESISTOR	100Ω 1/16	W J					
R876 R877	NRSA63J-101X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	100Ω 1/16 0Ω 1/16		IC8101	TCN75-5.0MOA-X	IC		
R878	NRSA63J-101X	MG RESISTOR	100Ω 1/16	W J	C8101	NCF31CZ-104X	C CAPACITOR	0.1uF 16	SV Z
R879	NRSA63J-103X	MG RESISTOR	10kΩ 1/16	vv J					

ÆRef No.	Part No.	Part Name	Description	Local
R8101 R8102 R8103	NRSA63J-101X NRSA63J-101X NRSA63J-103X	MG RESISTOR MG RESISTOR MG RESISTOR	100Ω 1/1 100Ω 1/1 10kΩ 1/1	6W J
CN800V	QGA2001C1-04	CONNECTOR	W-B	(1-4)

#### LINE FILTER PW BOARD ASS'Y (SSB-9297A)

⚠Ref No.	Part No.	Part Name	Description	Local
⚠C9901 ⚠C9904 ⚠C9912 ⚠C9913	QFZ9075-225 QFZ9075-224 QCZ9079-102 QCZ9079-102	MPP CAPACITOR MPP CAPACITOR C CAPACITOR C CAPACITOR	2.2uF AC275V 0.22uF AC275V 1000pF AC250V 1000pF AC250V	M M
<b></b> ♣R9902	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W	K
CN90E1 CN90E3 CN90PW AF9901 FC9902 AJ9901 ALF9901 ALF9902 ALF9903 ALF9904	QUB03K-08FPHM QUB070-42FPHM WJK0050-008A QMFZ041-100-J1 A49593 QMCB006-C01 QQR1281-002 QQR1281-002 QQR1376-001 QQR1376-001	SIN TWIST WIRE SIN TWIST WIRE E-SI C WIRE C-B FUSE CONNECTOR CLIP CONNECTOR CLIP AC INLET LINE FILTER LINE FILTER LINE FILTER LINE FILTER LINE FILTER LINE FILTER	10A 250	V

#### **DISPLAY LED PW BOARD ASS'Y (SSB-0L297A)**

ÆRef No.	Part No.	Part Name	Description	Local
IC1642	GP1UA261XK	IR DETECT UNIT	38k	Hz
Q1641 Q1642	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR		
D1643	SLR-342MG3F	LED	GREI	EN
C1642	QER61CM-476Z	E CAPACITOR	47uF 16V	M
R1641 R1642 R1643 R1644 R1654 R1657	NRSA63J-102X NRSA63J-102X NRSA63J-331X NRSA63J-222X NRSA63J-102X NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	$\begin{array}{c} 1 \text{k}\Omega \ 1/16\text{V} \\ 1 \text{k}\Omega \ 1/16\text{V} \\ 330\Omega \ 1/16\text{V} \\ 2.2 \text{k}\Omega \ 1/16\text{V} \\ 1 \text{k}\Omega \ 1/16\text{V} \\ 0\Omega \ 1/16\text{V} \\ 0\Omega \ 1/16\text{V} \end{array}$	A 1 A 1 A 1 A 1
CN200X	QGA2501F1-08	CONNECTOR	W-B (1	-8)

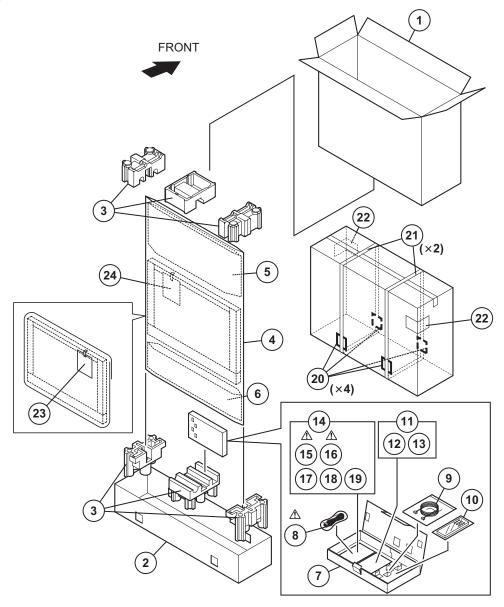
#### DISPLAY SWITCH PW BOARD ASS'Y (SSB-0L385A)

Ref No.	Part No.	Part Name	Description	Local
R2701 R2702 R2703	NRSA63J-562X NRSA63J-153X NRSA63J-562X	MG RESISTOR MG RESISTOR MG RESISTOR	5.6kΩ 1/16W J 15kΩ 1/16W J 5.6kΩ 1/16W J	
R2704  CN000T S2701 S2702 S2703 S2704 S2705 S2706 S2707	NRSA63J-153X QGA2501F1-06 QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z	MG RESISTOR  CONNECTOR TACT SWITCH	15kΩ 1/16W J W-B (1-6) VOL+ CH- SIZE INPUT CH+ VOL- POWER	

## REMOTE CONTROL UNIT PARTS LIST [RM-C13G-1H]

_Ref No.	Part No.	Part Name	Description Local
	R25-8173	BATTERY COVER	

### **PACKING**



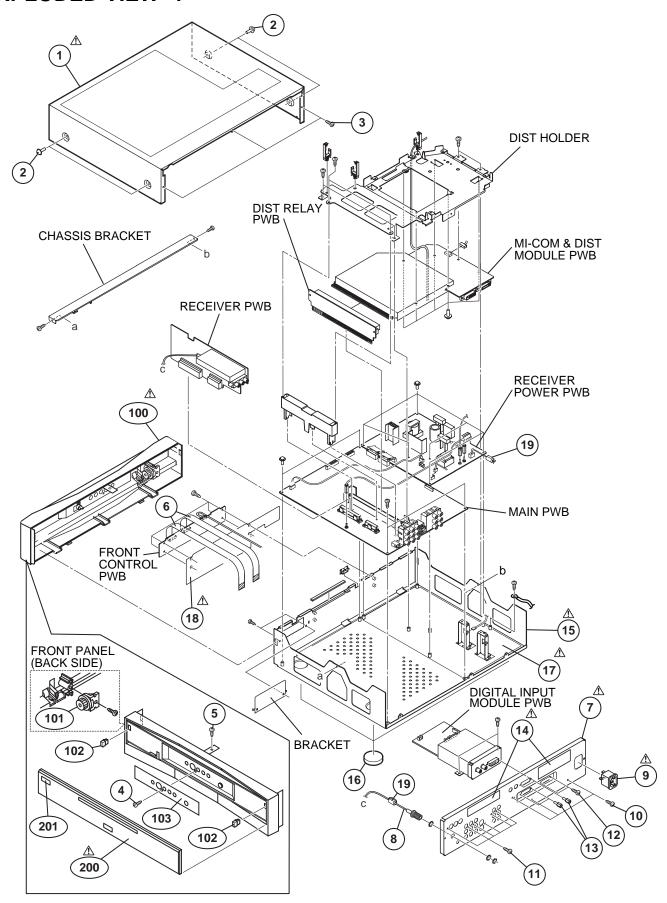
## **PACKING PARTS LIST**

⚠ Re	ef.No.	Part No.	Part Name	Description	Local
1		LC21379-001A	PACKING CASE	TOP	
2	) -	LC21381-001A	PACKING CASE	BOTTOM	
		LC11669-001A	CUSHION	6pcs in 1set	
4		LC30236-005A	POLY BAG		
4 5 6	,	LC41035-005A	POLY BAG		
6	5	LC41035-003A	POLY BAG		
7		LC21264-001A	PACKING CASE	FOR ACCESSORY	
<b>∆</b> 8		QMPE280-180-JW	POWER CORD(US/CA)	1.8m BLACK	
9		QAM0449-001	PDP I/F CABLE	SYSTEM CABLE	
10		RM-C13G-1H	REMOCON UNIT	40 00	
11		QPA01203005	POLY BAG	12cm x 30cm	
12	2	QQR1193-001	CORE FILTER	DCD AA(v2)	
13	3	OD400500505D	BATTERY	R6P AA(x2)	
14 <b>∆</b> 15		QPA02503505P LCT1517-001B	POLY BAG INST BOOK	25cm x 35cm	
<u></u>		LCT1517-001B LCT1518-001B	INST BOOK INST BOOK	English French	
17		LCT1516-001B LCT1541-001A	CAUTION BOOK	FIERCI	
18		BT-51034-1	REGIST.CARD		
19		BT-52006-2	WARRANTY CARD		
20	n n	CP30903-001	JOINT	(x4)	
20	1	CP30371-00D	BAND	(x2)	
21 22	2	LC20989-001A-H	CORNER LABEL	2pcs in 1set(x2)	
23	3	LC41750-001A	INST SHEET	200 III 1001(N2)	
	-				

# [RECEIVER UNIT : TU-42WV74/SA] EXPLODED VIEW PARTS LIST -1

$\triangle$	Ref.No.	Part No.	Part Name	Description	Local
Λ	1	LC11331-006A	TOP COVER		
	2	CM43096-002	SPECIAL SCREW	(x4)	
	3	QYSDSG3008N	TAP SCREW	3mm x 8mm(x3)	
	4 5	QYSBSF3010M	TAP SCREW	3mm x 10mm	
	5	QYSDSG3008N	TAP SCREW	3mm x 8mm	
	6	QUQ212-1314CH	FFC WIRE		
⚠	7	LC21370-001B	BACK COVER		
	8	QAM0493-001	F CABLE		
⚠	9	QMCB004-001	AC INLET		
	10	QYSDSG3008N	TAPPING SCREW	3mm x 8mm(x3)	
	11	QYSBSF3010M	TAP SCREW	3mm x 10mm(x6)	
	12	QYSPSPL2608N	SCREW	2.6mm x 8mm(x2)	
	13	QNB0036-001	CONN ACCESSORY	(x4)	
$\triangle$	14	LC21458-002A-0L	RATING LABEL	2pcs in 1set	
△!\	15	LC11330-005B	BOTTOM CASE		
	16	LC41284-001A	FOOT	(x4)	
⚠	17	LC21215-001C	INSULATOR	(x2)	
<u> </u>	18	LC32109-001B	SHEET	( 0)	
^	19	QQR1400-001	CORE FILTER	(x2)	
⚠	100	LC11328-014B	FRONT PANEL ASSY	(Inc.101-104)	
	101	QZW0055-003	DAMPER		
	102	QZW0063-001	MAGNET LATCH		
	103	LC31917-005A	CONTROL PLATE	(1 004 000)	
⚠	200	LC21099-003B	DOOR ASSY	(Inc.201-202)	
	201	PQ45130-6	JVC MARK		

#### **EXPLODED VIEW -1**



## PRINTED WIRING BOARD PARTS LIST

MAIN F	MAIN PW BOARD ASS'Y (SSB-1097A)				Part No.	Part Name	Description Local	
⚠Ref No.  IC1211 IC1212 IC1301 IC1501 IC1511 IC1703 IC1801 IC1941 IC1942 IC1943 IC1991 IC1993 IC3001 IC3002	Part No.  TA1318N SN74AHC2G08T-X AN15852A CXA2069Q PQ3RD23 AT24LC32-42WX84 TA48M033F-X PQ1CG21H2FZ PQ1CY1032Z-W PQ1CY1032Z-W PQ070XH02Z-W PQ12RD11 MM1565AF-X MN82832 R1170H331B-X	Part Name  IC	Description Local  (SERVICE)	D2207 D2209 D2210 D2212 D2213 D2215 D2216 D2217 D2218 D2219 D2402 D2403 D2404 D2406 D2421	NRSA02J-0R0X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X	MG RESISTOR Z DIODE	0Ω 1/10	W J
Q0701 Q0702 Q1232 Q1301 Q1302 Q1303 Q1531 Q1961 Q1962 Q1964 Q1965 Q1981 Q3002 Q3003 Q3003 Q3006 Q3007 Q3505 Q3506 Q3505 Q3506 Q3505 Q3506 Q3507 D1093 D1301 D1302 D1303 D1596 D1598 D1596 D1598 D1596 D1598 D1599 D1667 D1668 D1702 D1703 D1891 D1891 D1892 D1703 D1891 D1893 D1894 D1944 D1948 D1965 D1965 D1965 D1965 D1965 D1965 D19668 D1969 D1961 D1991 D1991 D1991 D1991 D1991 D1991 D1901 D2101 D2201 D2206 D2206	2SK2090-X 2SK2090-X 2SK2090-X 2SK2090-X 2SA1530A/QR/-X 2SC3837K/NP/-X 2SC3837K/NP/-X 2SC3837K/NP/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X UN2213-X 2SC4685 2SC4682-T 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SA1530A/QR/-X 2SA1530A/QR/-X 2SA1530A/QR/-X 2SA1530A/QR/-X 2SA1530A/QR/-X 2SA1530A/QR/-X 2SC3928A/QR/-X 2SA1530A/QR/-X 2SC3928A/QR/-X 4SA1530A/QR/-X 4SA100/M/-X 4SA100/M	MOS FET MOS FET MOS FET MOS FET TRANSISTOR T		C1111 C1213 C1214 C1215 C1216 C1218 C1219 C1233 C1301 C1302 C1303 C1304 C1305 C1306 C1307 C1311 C1312 C1313 C1314 C1315 C1318 C1321 C1322 C1323 C1324 C1325 C1326 C1327 C1328 C1329 C1331 C1314 C1355 C1366 C1307 C1368 C1371 C1371 C1371 C1382 C1381 C1382 C13931 C1391 C1392 C1391 C1391 C1392 C1391 C1391 C1392 C1403 C1406 C1406 C1408 C1409 C1411 C1412 C1416 C1417 C1418 C1420 C1421 C1422	NCB31HK-103X QETN1CM-107Z QETN1HM-225Z QFLC1HJ-103Z NCF11CZ-475X NCB21CK-105X NCF11CZ-475X NCB21CK-105X NCF11CZ-475X NDC31HJ-180X QETN1CM-107Z QETN1CM-107Z QETN1CM-107Z QETN1CM-107Z NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-105X NCB21CK-105X NCB31HK-103X NCB31HK-103X NCB31HJ-101X NDC31HJ-101X NDC31HJ-101X NDC31HJ-101X NDC31HJ-101X NDC31HJ-101X NDC31HJ-101X NCB31HK-103X NCB31	C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR C CAPA	0.01uF 56 100uF 16 2.2uF 50 0.01uF 51 4.7uF 16 1.uF 16 4.7uF 16 100uF 16 100uF 16 100uF 16 0.1uF 16 0.1uF 16 1.uF 16 0.01uF 50 0.01uF 50 0.01uF 50 0.01uF 50 0.01uF 51 0.01uF 52 0.01uF 56	NV M NV M SV Z SV K SV Z SV K SV Z SV K SV X SV K SV X SV K SV X

∆Ref No.	Part No.	Part Name	Description	Local	Ref No.	Part No.	Part Name	Description	Local
C1423 C1430	QETN1HM-476Z NCB31HK-103X	E CAPACITOR C CAPACITOR	47uF 5 0.01uF 5	0V K	C3022 C3023	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 16V 0.1uF 16V	Z
C1431 C1432	NCB31HK-103X NCB31HK-103X	C CAPACITOR C CAPACITOR	0.01uF 5 0.01uF 5		C3024 C3025	NCF31CZ-104X QETN1CM-106Z	C CAPACITOR E CAPACITOR	0.1uF 16V 10uF 16V	
C1433 C1503	NCB31HK-103X NRSA63J-0R0X	C CAPACITOR MG RESISTOR	0.01uF 5 0Ω 1/1	0V K	C3026 C3027	NCF31CZ-104X NDC31HJ-7R0X	C CAPACITOR C CAPACITOR	0.1uF 16V 7pF 50V	Z
C1504 C1505	NRSA63J-0R0X QENC1HM-475Z	MG RESISTOR BP E CAPACITOR	0Ω 1/1 4.7uF 5	6W J	C3028 C3029	NDC31HJ-7R0X NCF31CZ-104X	C CAPACITOR C CAPACITOR	7pF 50V 0.1uF 16V	′ J
C1510	QENC1CM-106Z	BP E CAPACITOR	10uF 1	6V M	C3030	NCF31CZ-104X	C CAPACITOR	0.1uF 16V	Z
C1519 C1531	QETN1EM-476Z NCB31CK-104X	E CAPACITOR C CAPACITOR	47uF 2 0.1uF 1	6V K	C3031 C3032	NCF31CZ-104X NDC31HJ-560X	C CAPACITOR C CAPACITOR	0.1uF 16V 56pF 50V	′ J
C1532 C1538	QETN1HM-226Z NCS31HJ-270X	E CAPACITOR C CAPACITOR	22uF 5 27pF 5		C3033 C3034	NDC31HJ-330X NDC31HJ-560X	C CAPACITOR C CAPACITOR	33pF 50V 56pF 50V	
C1539 C1540	QENC1HM-475Z QETN1AM-107Z	BP E CAPACITOR E CAPACITOR	4.7uF 5 100uF 1		C3035 C3036	NDC31HJ-330X NCF31CZ-104X	C CAPACITOR C CAPACITOR	33pF 50V 0.1uF 16V	
C1579 C1598	QETN1EM-476Z NCB11CK-225X	E CAPACITOR C CAPACITOR	47uF 2 2.2uF 1	5V M	C3037 C3038	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 16V 0.1uF 16V	Z
C1599 C1697	NCB11CK-225X QETN1EM-476Z	C CAPACITOR E CAPACITOR	2.2uF 1 47uF 2	6V K	C3039 C3041	NCF31CZ-104X QETN1CM-106Z	C CAPACITOR	0.1uF 16V 10uF 16V	Z
C1702	NCB21CK-105X	C CAPACITOR	1uF 1	6V K	C3042	NCB31HK-472X	E CAPACITOR C CAPACITOR	4700pF 50V	K
C1802 C1803	QETN1HM-106Z QETN1EM-476Z	E CAPACITOR E CAPACITOR	10uF 5 47uF 2	5V M	C3044 C3045	NCB31HK-472X NCB31HK-472X	C CAPACITOR C CAPACITOR	4700pF 50V 4700pF 50V	K
C1941 C1942	QETN1VM-108Z QEZ0255-128	E CAPACITOR E CAPACITOR	1000uF 3 1200uF 1		C3046 C3047	NCB31HK-472X QETN1CM-106Z	C CAPACITOR E CAPACITOR	4700pF 50V 10uF 16V	
C1944 C1945	QETN1VM-108Z QEZ0256-128	E CAPACITOR E CAPACITOR	1000uF 3 1200uF 1		C3048 C3049	NCB31HK-472X NCB31HK-472X	C CAPACITOR C CAPACITOR	4700pF 50V 4700pF 50V	
C1946 C1947	NCB31CK-104X QETN1CM-477Z	C CAPACITOR E CAPACITOR	0.1uF 1 470uF 1	6V K	C3050 C3051	NCB31HK-472X NCB31HK-472X	C CAPACITOR C CAPACITOR	4700pF 50V 4700pF 50V	K
C1948	QETN1CM-477Z	E CAPACITOR	470uF 1	6V M	C3052	NCB31HK-472X	C CAPACITOR	4700pF 50V	K
C1949 C1950	QETN0JM-108Z QETN0JM-108Z	E CAPACITOR E CAPACITOR	1000uF 6. 1000uF 6.	3V M	C3053 C3054	NCB31HK-472X NCB31HK-472X	C CAPACITOR C CAPACITOR	4700pF 50V 4700pF 50V	K
C1951 C1952	QETN1VM-108Z QETN1AM-108Z	E CAPACITOR E CAPACITOR	1000uF 3 1000uF 1		C3055 C3056	NCB31HK-472X NCB31HK-472X	C CAPACITOR C CAPACITOR	4700pF 50V 4700pF 50V	
C1953 C1954	QETN0JM-108Z QETN0JM-108Z	E CAPACITOR E CAPACITOR	1000uF 6.: 1000uF 6.:		C3057 C3058	QETN1CM-106Z NCF31CZ-104X	E CAPACITOR C CAPACITOR	10uF 16V 0.1uF 16V	
C1955 C1957	NCB31EK-104X QETN1CM-477Z	C CAPACITOR E CAPACITOR	0.1uF 2 470uF 1	5V K	C3059 C3060	QETN1HM-105Z NCF31CZ-104X	E CAPACITOR C CAPACITOR	1uF 50V 0.1uF 16V	M
C1961	QETN1HM-105Z	E CAPACITOR	1uF 5	OV M	C3061	QETN1HM-105Z	E CAPACITOR	1uF 50V	M
C1981 C1983	QETN1CM-107Z QETN1CM-107Z	E CAPACITOR E CAPACITOR	100uF 100uF 1	6V M	C3062 C3063	NCF31CZ-104X QETN1HM-105Z	C CAPACITOR E CAPACITOR	0.1uF 16V 1uF 50V	M
C1984 C1985	QETN1AM-227Z QETN0JM-477Z	E CAPACITOR E CAPACITOR	220uF 1 470uF 6.	3V M	C3064 C3065	NCF31CZ-104X QETN1CM-106Z	C CAPACITOR E CAPACITOR	0.1uF 16V 10uF 16V	M
C1991 C1992	QETN1EM-107Z QETN1CM-107Z	E CAPACITOR E CAPACITOR	100uF 2 100uF 1		C3066 C3067	NCF31CZ-104X QETN1CM-476Z	C CAPACITOR E CAPACITOR	0.1uF 16V 47uF 16V	
C1994 C1995	NCB11CK-225X NCB11CK-225X	C CAPACITOR C CAPACITOR	2.2uF 1 2.2uF 1		C3068 C3069	NCB31HK-103X QETN1CM-476Z	C CAPACITOR E CAPACITOR	0.01uF 50V 47uF 16V	
C1996 C2102	NCB11CK-225X NCB31HK-103X	C CAPACITOR C CAPACITOR	2.2uF 1 0.01uF 5	6V K	C3070 C3071	NCB31HK-103X QETN1CM-476Z	C CAPACITOR E CAPACITOR	0.01uF 50V 47uF 16V	K
C2103	QETN1HM-106Z	E CAPACITOR	10uF 5	OV M	C3072	NCF31CZ-104X	C CAPACITOR	0.1uF 16V	Z
C2104 C2105	QETN1HM-106Z NCB11CK-225X	E CAPACITOR C CAPACITOR	10uF 5 2.2uF 1	6V K	C3073 C3077	NCB10JK-106X NCB31AK-334X	C CAPACITOR C CAPACITOR	10uF 6.3V 0.33uF 10V	K
C2106 C2123	NCB11CK-225X NCB31HK-103X	C CAPACITOR C CAPACITOR	2.2uF 1 0.01uF 5	0V K	C3078 C3079	NCF31CZ-104X NDC31HJ-470X	C CAPACITOR C CAPACITOR	0.1uF 16V 47pF 50V	' J
C2124 C2126	QETN1HM-106Z QETN1HM-106Z	E CAPACITOR E CAPACITOR	10uF 5 10uF 5		C3080 C3082	QBTC1CK-106Z NDC31HJ-151X	TA E CAPACITOR C CAPACITOR	10uF 16V 150pF 50V	′ J
C2127 C2128	NCB11CK-225X NCB11CK-225X	C CAPACITOR C CAPACITOR	2.2uF 1 2.2uF 1		C3086 C3088	NCB31HK-152X NDC31HJ-100X	C CAPACITOR C CAPACITOR	1500pF 50V 10pF 50V	
C2144 C2145	QETN1HM-106Z NCB11CK-225X	E CAPACITOR C CAPACITOR	10uF 5 2.2uF 1	OV M	C3089 C3090	NDC31HJ-100X NDC31HJ-100X	C CAPACITOR C CAPACITOR	10pF 50V 10pF 50V	′ J
C2146	NCB11CK-225X	C CAPACITOR	2.2uF 1 1uF 1	6V K	C3099	NCB31HK-472X NCB31HK-472X	C CAPACITOR	4700pF 50V 4700pF 50V	K
C2302 C2303	NCB21CK-105X NCB21CK-105X	C CAPACITOR C CAPACITOR	1uF 1	6V K	C3100 C3501	NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 16V	Z
C2322 C2323	NCB21CK-105X NCB21CK-105X	C CAPACITOR C CAPACITOR	1uF 1 1uF 1	6V K	C3502 C3503	NDC31HJ-101X NDC31HJ-121X	C CAPACITOR C CAPACITOR	100pF 50V 120pF 50V	′ J
C2342 C2343	NCB21CK-105X NCB21CK-105X	C CAPACITOR C CAPACITOR	1uF 1 1uF 1		C3504 C3506	NDC31HJ-150X NCF11CZ-475X	C CAPACITOR C CAPACITOR	15pF 50V 4.7uF 16V	
C3001 C3002	QENC1AM-336Z NDC31HJ-151X	BP E CAPACITOR C CAPACITOR	33uF 1 150pF 5		C3507 C3508	NCF31CZ-104X NDC31HJ-101X	C CAPACITOR C CAPACITOR	0.1uF 16V 100pF 50V	
C3003 C3004	NDC31HJ-121X NDC31HJ-150X	C CAPACITOR C CAPACITOR	120pF 5 15pF 5	50V J	C3509 C3510	NDC31HJ-121X NDC31HJ-150X	C CAPACITOR C CAPACITOR	120pF 50V 15pF 50V	′ J
C3005	NCF11CZ-475X	C CAPACITOR	4.7uF 1	6V Z	C3512 C3513	NCF11CZ-475X	C CAPACITOR	4.7uF 16V 0.1uF 16V	Z
C3006 C3007	NCF31CZ-104X NCB31AK-334X	C CAPACITOR C CAPACITOR	0.1uF 1 0.33uF 1	0V K	C3514	NCF31CZ-104X NDC31HJ-101X	C CAPACITOR C CAPACITOR	100pF 50V	′ J
C3008 C3009	NDC31HJ-151X NDC31HJ-121X	C CAPACITOR C CAPACITOR	150pF 5 120pF 5	50V J	C3515 C3516	NDC31HJ-121X NDC31HJ-150X	C CAPACITOR C CAPACITOR	120pF 50V 15pF 50V	′ J
C3010 C3011	NDC31HJ-150X NCF11CZ-475X	C CAPACITOR C CAPACITOR	15pF 5 4.7uF 1		C3518 C3519	NCF11CZ-475X QENC1CM-336Z	C CAPACITOR BP E CAPACITOR	4.7úF 16V 33uF 16V	
C3012 C3013	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 1 0.1uF 1		C3520 C3521	QENC1CM-336Z QENC1CM-336Z	BP E CAPACITOR BP E CAPACITOR	33uF 16V 33uF 16V	
C3014 C3015	QETN1CM-107Z NCF31CZ-104X	E CAPACITOR C CAPACITOR	100uF 1 0.1uF 1	6V M	R0511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W	
C3016	NCF31CZ-104X	C CAPACITOR	0.1uF 1	6V Z	R0606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W	J
C3017 C3018	QENC1HM-475Z NCF31CZ-104X	BP E CAPACITOR C CAPACITOR	4.7uF 5 0.1uF 1	6V Z	R0705 R0706	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16W 10kΩ 1/16W	/ J
C3019 C3020	NCB31HK-103X NCB31HK-103X	C CAPACITOR C CAPACITOR	0.01uF 5 0.01uF 5	0V K	R0707 R1097	NRSA63J-0R0X NRSA63J-102X	MG RESISTOR MG RESISTOR	0Ω 1/16W 1kΩ 1/16W	/ J
C3021	NCB31HK-103X	C CAPACITOR	0.01uF 5	0V K	R1121	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W	J

Ref No.	Part No.	Part Name	Description	Local	ÆRef No.	Part No.	Part Name	Description	Local
R1125 R1127	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16 0Ω 1/16		R1619 R1702	NRSA63J-0R0X NRSA63J-101X	MG RESISTOR MG RESISTOR	0Ω 1/16V 100Ω 1/16V	
R1128	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	6W J	R1703	NRSA63J-101X	MG RESISTOR	100Ω 1/16V	٧J
R1132 R1136	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16 0Ω 1/16		R1801 R1891	NRSA63J-0R0X NRSA63J-221X	MG RESISTOR MG RESISTOR	0Ω 1/16V 220Ω 1/16V	
R1202	NRSA63J-101X	MG RESISTOR	100Ω 1/16	SW J	R1892	NRSA63J-221X	MG RESISTOR	220Ω 1/16V	
R1203	NRSA63J-101X	MG RESISTOR	100Ω 1/16		R1894	NRSA63J-221X	MG RESISTOR	220Ω 1/16V	
R1213 R1214	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16 100Ω 1/16		R1895 R1896	NRSA63J-221X NRSA63J-563X	MG RESISTOR MG RESISTOR	220Ω 1/16V 56kΩ 1/16V	
R1218	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16	SW J	R1897	NRSA63J-563X	MG RESISTOR	56kΩ 1/16V	٧J
R1219 R1220	NRSA63J-331X NRSA63J-101X	MG RESISTOR MG RESISTOR	330Ω 1/16 100Ω 1/16		R1942 R1943	NRSA63D-122X NRSA63D-123X	MG RESISTOR MG RESISTOR	1.2kΩ 1/16W 12kΩ 1/16W	
R1221	NRSA63J-101X	MG RESISTOR	100Ω 1/16	6W J	R1945	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W	/ D
R1226 R1228	NRSA63J-103X NRSA63J-222X	MG RESISTOR MG RESISTOR	10kΩ 1/16 2.2kΩ 1/16		R1946 R1949	NRSA63D-103X NRSA63D-122X	MG RESISTOR MG RESISTOR	10kΩ 1/16W 1.2kΩ 1/16W	
R1229	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16	6W J	R1950	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16V	٧J
R1230 R1231	NRSA63J-101X NRSA63J-221X	MG RESISTOR MG RESISTOR	100Ω 1/16 220Ω 1/16		R1952 R1953	NRSA63J-331X NRSA63J-224X	MG RESISTOR MG RESISTOR	330Ω 1/16V 220kΩ 1/16V	
R1232	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16	SW J	R1954	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J
R1234 R1236	NRSA63J-562X NRSA63J-562X	MG RESISTOR MG RESISTOR	5.6kΩ 1/16 5.6kΩ 1/16		R1957 R1958	NRSA63D-682X NRSA63D-332X	MG RESISTOR MG RESISTOR	6.8kΩ 1/16W 3.3kΩ 1/16W	
R1240	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	SW J	R1959	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W	/ D
R1301 R1302	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16 100Ω 1/16		R1961 R1962	NRSA63J-102X NRSA63J-562X	MG RESISTOR MG RESISTOR	1kΩ 1/16V 5.6kΩ 1/16V	
R1303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	6W J	R1963	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16V	٧J
R1337 R1347	NRSA63J-750X NRSA63J-750X	MG RESISTOR MG RESISTOR	75Ω 1/16 75Ω 1/16		R1964 R1965	NRSA63J-223X NRSA63J-102X	MG RESISTOR MG RESISTOR	22kΩ 1/16V 1kΩ 1/16V	
R1372	NRSA63J-101X	MG RESISTOR	100Ω 1/16	SW J	R1966	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16V	٧J
R1374 R1375	NRSA63J-471X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	470Ω 1/16 0Ω 1/16		R1967 R1968	NRSA63J-122X NRSA63J-102X	MG RESISTOR MG RESISTOR	1.2kΩ 1/16V 1kΩ 1/16V	
R1376	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	6W J	R1969	NRSA63J-102X	MG RESISTOR	1kΩ 1/16V	٧J
R1377 R1382	NRSA63J-0R0X NRSA63J-101X	MG RESISTOR MG RESISTOR	0Ω 1/16 100Ω 1/16		<b>∆</b> R1981 R1982	QRK126J-181X NRSA63D-222X	UNF C RESISTOR MG RESISTOR	180Ω 1/2V 2.2kΩ 1/16W	
R1384	NRSA63J-471X	MG RESISTOR	470Ω 1/16	6W J	R1983	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W	/ D
R1385 R1386	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16 0Ω 1/16		R1984 R1985	NRSA63J-183X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	18kΩ 1/16V 0Ω 1/16V	
R1387	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	SW J	<b></b> ∆R1986	QRK126J-331X	UNF C RESISTOR	330Ω 1/2V	٧J
R1392 R1394	NRSA63J-101X NRSA63J-471X	MG RESISTOR MG RESISTOR	100Ω 1/16 470Ω 1/16		R1991 R1992	NRSA63J-471X NRSA63J-182X	MG RESISTOR MG RESISTOR	470Ω 1/16V 1.8kΩ 1/16V	
R1395	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	6W J	R2102	NRSA63J-750X	MG RESISTOR	75Ω 1/16V	٧J
R1396 R1397	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16 0Ω 1/16	6W J 6W J	R2103 R2104	NRSA63J-750X NRSA63J-750X	MG RESISTOR MG RESISTOR	75Ω 1/16V 75Ω 1/16V	V J V .I
R1407	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	SW J	R2105	NRSA63J-224X	MG RESISTOR	220kΩ 1/16V	٧J
R1409 R1514	NRSA63J-0R0X NRSA63J-102X	MG RESISTOR MG RESISTOR	0Ω 1/16 1kΩ 1/16		R2106 R2107	NRSA63J-224X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	220kΩ 1/16V 0Ω 1/16V	
R1515	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	6W J	R2108	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J
R1516 R1517	NRSA63J-682X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	6.8kΩ 1/16 0Ω 1/16		R2122 R2123	NRSA63J-750X NRSA63J-750X	MG RESISTOR MG RESISTOR	75Ω 1/16V 75Ω 1/16V	
R1518	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16	6W J	R2125	NRSA63J-750X	MG RESISTOR	75Ω 1/16V	٧J
R1519 R1520	NRSA63J-0R0X NRSA63J-221X	MG RESISTOR MG RESISTOR	0Ω 1/16 220Ω 1/16		R2126 R2127	NRSA63J-224X NRSA63J-224X	MG RESISTOR MG RESISTOR	220kΩ 1/16V 220kΩ 1/16V	
R1521	NRSA63J-221X	MG RESISTOR	220Ω 1/16	6W J	R2144	NRSA63J-750X	MG RESISTOR	75Ω 1/16V	٧J
R1522 R1523	NRSA63J-221X NRSA63J-682X	MG RESISTOR MG RESISTOR	220Ω 1/16 6.8kΩ 1/16		R2145 R2146	NRSA63J-224X NRSA63J-224X	MG RESISTOR MG RESISTOR	220kΩ 1/16V 220kΩ 1/16V	
R1524	NRSA63J-221X	MG RESISTOR	220Ω 1/16	SW J	R2301	NRSA63J-224X NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J
R1525 R1526	NRSA63J-682X NRSA63J-682X	MG RESISTOR MG RESISTOR	6.8kΩ 1/16 6.8kΩ 1/16		R2303 R2304	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	V J
R1527	NRSA63J-221X	MG RESISTOR	220Ω 1/16	SW J	R2305	NRSA63J-750X	MG RESISTOR	75Ω 1/16V	٧J
R1528 R1529	NRSA63J-682X NRSA63J-221X	MG RESISTOR MG RESISTOR	6.8kΩ 1/16 220Ω 1/16		R2306 R2307	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	
R1530	NRSA63J-102X	MG RESISTOR	1kΩ 1/16		R2308	NRSA63J-750X	MG RESISTOR	75Ω 1/16V	
R1533 R1534	NRSA63J-221X NRSA63J-682X	MG RESISTOR MG RESISTOR	220Ω 1/16 6.8kΩ 1/16		R2309 R2310	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	
R1535 R1536	NRSA63J-221X NRSA63J-682X	MG RESISTOR MG RESISTOR	220Ω 1/16 6.8kΩ 1/16		R2321 R2323	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	
R1537	NRSA63J-221X	MG RESISTOR	220Ω 1/16		R2324	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	
R1538	NRSA63J-221X	MG RESISTOR	220Ω 1/16		R2325 R2326	NRSA63J-750X	MG RESISTOR	75Ω 1/16V	
R1539 R1548	NRSA63J-682X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	6.8kΩ 1/16 0Ω 1/16		R2320 R2327	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	
R1550	NRSA63J-102X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	1kΩ 1/16 0Ω 1/16		R2328 R2329	NRSA63J-750X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	75Ω 1/16V 0Ω 1/16V	
R1551 R1552	NRSA63J-102X	MG RESISTOR	1kΩ 1/16		R2329	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	
R1553 R1554	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16 0Ω 1/16	6W J	R2341 R2343	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	V J
R1560	NRSA63J-101X	MG RESISTOR	100Ω 1/16	SW J	R2344	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J
R1562 R1563	NRSA63J-102X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	1kΩ 1/16 0Ω 1/16		R2346 R2347	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	
R1571	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	SW J	R2349	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J
R1577 R1578	NRSA63J-221X NRSA63J-682X	MG RESISTOR MG RESISTOR	220Ω 1/16 6.8kΩ 1/16		R2350 R2463	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	
R1579	NRSA63J-221X	MG RESISTOR	220Ω 1/16	6W J	R2464	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J
R1582 R1598	NRSA63J-0R0X NRSA63J-224X	MG RESISTOR MG RESISTOR	0Ω 1/16 220kΩ 1/16		R2465 R3001	NRSA63J-0R0X NRSA63J-123X	MG RESISTOR MG RESISTOR	0Ω 1/16V 12kΩ 1/16V	
R1599	NRSA63J-224X	MG RESISTOR	220kΩ 1/16	SW J	R3002	NRSA63J-333X	MG RESISTOR	33kΩ 1/16V	٧J
R1614 R1615	NRSA63J-104X NRSA63J-563X	MG RESISTOR MG RESISTOR	100kΩ 1/16 56kΩ 1/16		R3003 R3004	NRSA63J-101X NRSA63J-332X	MG RESISTOR MG RESISTOR	100Ω 1/16V 3.3kΩ 1/16V	
R1616	NRSA63J-153X	MG RESISTOR	15kΩ 1/16		R3005	NRSA63J-181X	MG RESISTOR	180Ω 1/16V	

Ref No.	Part No.	Part Name	Description	Local	Ref No.	Part No.	Part Name	Description	Local
R3006 R3007 R3008	NRSA63J-152X NRSA63J-102X NRSA63J-0R0X	MG RESISTOR MG RESISTOR MG RESISTOR	1.5kΩ 1/16V 1kΩ 1/16V 0Ω 1/16V	A	R3533 R3534 R3535	NRSA63J-0R0X NRSA63J-101X NRSA63J-182X	MG RESISTOR MG RESISTOR MG RESISTOR	0Ω 1/16 100Ω 1/16 1.8kΩ 1/16	W J W J
R3009 R3010	NRSA63D-102X NRSA63J-152X	MG RESISTOR MG RESISTOR	1kΩ 1/16W 1.5kΩ 1/16V	/ D V .I	R3536 R3537	NRSA63J-181X NRSA63J-103X	MG RESISTOR MG RESISTOR	180Ω 1/16 10kΩ 1/16	
R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J	R3539	NRSA63J-101X	MG RESISTOR	100Ω 1/16	W J
R3012 R3013	NRSA63J-123X NRSA63J-333X	MG RESISTOR MG RESISTOR	12kΩ 1/16V 33kΩ 1/16V		R3541 R3548	NRSA63J-222X NRSA63J-680X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16 68Ω 1/16	
R3014 R3015	NRSA63J-101X NRSA63J-332X	MG RESISTOR MG RESISTOR	100Ω 1/16V 3.3kΩ 1/16V	٧J	R3549 R3550	NRSA63J-223X NRSA63J-223X	MG RESISTOR MG RESISTOR	22kΩ 1/16 22kΩ 1/16	W J
R3016	NRSA63J-181X	MG RESISTOR	180Ω 1/16V	٧J	R3551	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	W J
R3017 R3018	NRSA63J-152X NRSA63J-102X	MG RESISTOR MG RESISTOR	1.5kΩ 1/16V 1kΩ 1/16V		R3552 R3553	NRSA63J-223X NRSA63J-223X	MG RESISTOR MG RESISTOR	22kΩ 1/16 22kΩ 1/16	
R3019 R3020	NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 1kΩ 1/16W	٧J	R3554	NRSA63J-223X	MG RESISTOR MG RESISTOR	22kΩ 1/16 22kΩ 1/16	W J
R3021	NRSA63D-102X NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16V	٧J	R3555 RA3001	NRSA63J-223X NRZ0040-103X	NET RESISTOR	10kΩ 1/16W	J x4
R3022 R3023	NRSA63J-0R0X NRSA63J-473X	MG RESISTOR MG RESISTOR	0Ω 1/16V 47kΩ 1/16V	V J V J	RA3002 RA3003	NRZ0040-103X NRZ0040-103X	NET RESISTOR NET RESISTOR	10kΩ 1/16W 10kΩ 1/16W	J x4 J x4
R3024 R3025	NRSA63J-223X NRSA63J-223X	MG RESISTOR MG RESISTOR	22kΩ 1/16V 22kΩ 1/16V	٧J	RA3004	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W	
R3026	NRSA63J-223X	MG RESISTOR	22kΩ 1/16V	٧J	L0501	NQR0413-003X	FERRITE BEADS		
R3027 R3028	NRSA63J-471X NRSA63J-471X	MG RESISTOR MG RESISTOR	470Ω 1/16V 470Ω 1/16V		L0502 L1211	NQR0413-003X QQL244K-100Z	FERRITE BEADS COIL	10u	нк
R3029	NRSA63J-471X NRSA63J-471X	MG RESISTOR MG RESISTOR	470Ω 1/16V 470Ω 1/16V	٧J	L1301	QRN143J-0R0X QRN143J-0R0X	C RESISTOR C RESISTOR	0Ω 1/4 0Ω 1/4	W J
R3030 R3031	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J	L1302 L1401	QQL244K-100Z	COIL	10u	ΗK
R3032 R3033	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V		L1402 L1941	QQL26AK-100Z QQR1401-001	COIL CHOKE COIL	10u	HK
R3035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J	L1942	QQR1401-001	CHOKE COIL	22.	ш
R3036 R3037	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	٧J	L1943 L1944	QQL26AK-330Z QQL26AK-330Z	COIL COIL	33u	H K H K
R3039 R3040	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16V 100Ω 1/16V		L1945 L1946	QQL26AK-220Z QQL26AK-220Z	COIL COIL		H K H K
R3042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16V	٧J	L1947	QQR1401-001	CHOKE COIL		
R3043 R3044	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	٧J	L1948 L1949	QQL26AK-100Z QQL26AK-220Z	COIL COIL	22u	H K H K
R3045 R3047	NRSA63J-101X NRSA63J-221X	MG RESISTOR MG RESISTOR	100Ω 1/16V 220Ω 1/16V		L1950 L1951	QRN143J-0R0X QRN143J-0R0X	C RESISTOR C RESISTOR	0Ω 1/4 0Ω 1/4	
R3048	NRSA63J-331X	MG RESISTOR	330Ω 1/16V	٧J	L1952	QRN143J-0R0X	C RESISTOR	0Ω 1/4	W J
R3049 R3050	NRSA63J-104X NRSA63J-563X	MG RESISTOR MG RESISTOR	100kΩ 1/16V 56kΩ 1/16V	٧J	L1953 L1983	QQL26AK-100Z QRN143J-0R0X	COIL C RESISTOR	10υ 0Ω 1/4	W J
R3051 R3052	NRSA63J-123X NRSA63J-331X	MG RESISTOR MG RESISTOR	12kΩ 1/16V 330Ω 1/16V	٧J	L3001 L3002	NQL092K-6R8X NQL092K-6R8X	P COIL P COIL	6.8เ 6.8เ	H K H K
R3053	NRSA63J-123X	MG RESISTOR	12kΩ 1/16V	٧J	L3003	NQR0413-003X	FERRITE BEADS		
R3054 R3055	NRSA63J-103X NRSA63J-682X	MG RESISTOR MG RESISTOR	10kΩ 1/16V 6.8kΩ 1/16V		L3004 L3005	NRSA02J-0R0X NRSA02J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/10 0Ω 1/10	
R3056 R3057	NRSA02J-0R0X NRSA02J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/10V 0Ω 1/10V		L3006 L3007	NRSA02J-0R0X NRSA02J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/10 0Ω 1/10	
R3058	NRSA63J-102X	MG RESISTOR MG RESISTOR	1kΩ 1/16V	٧J	L3501	NQL092K-6R8X NQL092K-6R8X	P COIL P COIL	6.8u 6.8u	ΗK
R3059 R3060	NRSA63J-102X NRSA63J-182X	MG RESISTOR	1kΩ 1/16V 1.8kΩ 1/16V	٧J	L3502 L3503	NQL092K-6R8X	P COIL	6.8L	
R3061 R3062	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V		CN1001	QGB1508L1-16	CONNECTOR	B-B (1	-16)
R3063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V 0Ω 1/16V	٧J	CN1002	QGB1508L1-16 QGC2508C1-C0	CONNECTOR CONNECTOR	B-B (1	-16)́
R3064 R3065	NRSA63J-0R0X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16V	٧J	CN1004 CN1005	QGB1505J1-15	CONNECTOR	(1- <sup>-</sup> B-B (1	-15)
R3066 R3071	NRSA63J-101X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	100Ω 1/16V 0Ω 1/16V		CN1006 CN100A	QGB1505J1-35 QGA2501C5-04Z	CONNECTOR CONNECTOR	B-B (1 W-B (	
R3072 R3073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J	CN100C	QGA2501F1-06 QJK002-043414	CONNECTOR	W-B (	
R3074	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	٧J	CN100F CN100G	QGF1201C2-13	SIN CR C-B WIRE CONNECTOR	FFC/FPC (1	
R3075 R3076	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V		CN100H CN100Q	QGF1201C2-13 WJP0053-003A	CONNECTOR E-SH C WIRE C-B	FFC/FPC (1	-13)
R3077 R3078	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	٧J	CN10AU CN10DC	QJP001-033001 QJK002-044034	SHI CR C-B WIRE SIN CR C-B WIRE		
R3079	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J	CN10SR	QJK002-054230	SIN CR C-B WIRE		
R3080 R3081	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V		H1511 J1091	CEHT11B-002QS QNS0001-001	HEAT SINK 3.5 JACK	AV COMPULINI	ζáV
R3082 R3501	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16V 0Ω 1/16V	٧J	J2101 J2111	QNN0521-001 QND0104-001	PIN JACK S JACK	V/L/I	R IN S IN
R3502	NRSA63J-101X	MG RESISTOR	100Ω 1/16V	٧J	J2121	QNN0535-001	PIN JACK	COMPONEN	ΓIN
R3503 R3504	NRSA63J-182X NRSA63J-181X	MG RESISTOR MG RESISTOR	1.8kΩ 1/16V 180Ω 1/16V		K1301 K1303	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16 0Ω 1/16	
R3505 R3507	NRSA63J-103X NRSA63J-101X	MG RESISTOR MG RESISTOR	10kΩ 1/16V 100Ω 1/16V		K1305 K1306	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16 0Ω 1/16	
R3508	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16V	٧J	K1307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16	W J
R3509 R3511	NRSA63J-222X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16V 0Ω 1/16V	٧J	K1943 K1944	QRN143J-0R0X QRN143J-0R0X	C RESISTOR C RESISTOR	0Ω 1/4 0Ω 1/4	W J
R3516 R3517	NRSA63J-680X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	68Ω 1/16V 0Ω 1/16V	٧J	K3001 LC3001	NRSA02J-0R0X NQR0470-001X	MG RESISTOR EMI FILTER	0Ω 1/10 22pF 50V +50%-2	W J
R3518	NRSA63J-101X	MG RESISTOR	100Ω 1/16V	٧J	LC3002	NQR0470-001X	EMI FILTER	22pF 50V +50%-2	
R3519 R3520	NRSA63J-182X NRSA63J-181X	MG RESISTOR MG RESISTOR	1.8kΩ 1/16V 180Ω 1/16V	٧J	LC3003 LC3004	NQR0483-005X NQR0470-003X	EMI FILTER EMI FILTER	100pF 50V +50%-	
R3521 R3523	NRSA63J-103X NRSA63J-101X	MG RESISTOR MG RESISTOR	10kΩ 1/16V 100Ω 1/16V		LC3005 LC3006	NQR0470-001X NQR0470-003X	EMI FILTER EMI FILTER	22pF 50V +50%-2 100pF 50V +50%-3	
R3525	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16V	٧J	LC3007	NQR0470-001X	EMI FILTER	22pF 50V +50%-2	20%
R3532	NRSA63J-680X	MG RESISTOR	68Ω 1/16V	٧J	LC3008	NQR0470-001X	EMI FILTER	22pF 50V +50%-2	LU70

△Ref No.	Part No.	Part Name	Description	Local	Ref No.	Part No.	Part Name	Description	Local
LC3501 LC3502 LC3503	NQR0470-003X NQR0470-003X NQR0470-003X	EMI FILTER EMI FILTER EMI FILTER	100pF 50V +50% 100pF 50V +50% 100pF 50V +50%	-20%	⚠R9002 R9111 R9112	QRK129J-105 QRE121J-473Y QRE121J-473Y	UNF C RESISTOR C RESISTOR C RESISTOR	1MΩ 1/2\ 47kΩ 1/2\ 47kΩ 1/2\	N J N J
SL1211 X3001	CSB503F30 NAX0570-001X	C RESONATOR CRYSTAL	27.000	MHz	R9113 R9211 R9221	NRSA63J-103X QRF054K-3R3 QRT01EJ-1R0X	MG RESISTOR UNF WW RESISTOR MF RESISTOR	10kΩ 1/16\ 3.3Ω 5V 1Ω 1\	۷K
DIST R	ELAY PW BO	ARD ASS'Y (SS	SB-7065A)		R9222 R9301	QRT01EJ-R82X QRF074K-1R2	MF RESISTOR UNF WW RESISTOR	0.82Ω 1\ 1.2Ω 7\	N J V K
⚠Ref No.	Part No.	Part Name	Descri	ption Local	R9321 R9322 R9323	QRL03EJ-563X QRL03EJ-563X QRE121 L470Y	OMF RESISTOR OMF RESISTOR	56kΩ 3\ 56kΩ 3\ 47Ω 1/2\	ΝJ
CN7007 OT0001	QGC2508C1-C0 LC32097-001A	CONNECTOR SHIELD FRAME	(1-	-120)	R9323 R9325 R9326 ♠R9327 R9328	QRE121J-470Y QRE121J-152Y QRE121J-152Y QRK126J-332X QRL01EJ-153X	C RESISTOR C RESISTOR C RESISTOR UNF C RESISTOR OMF RESISTOR	1.5kΩ 1/2\ 1.5kΩ 1/2\ 1.5kΩ 1/2\ 3.3kΩ 1/2\ 15kΩ 1\	N J N J N J
RECEI	/ER POWER I	PW BOARD AS	S'Y (SSB-93	885A)	R9329 R9330	QRX01GJ-R47 QRX01GJ-R47	MF RESISTOR MF RESISTOR UNF C RESISTOR	0.47Ω 1\ 0.47Ω 1\	N J N J
⚠Ref No.	Part No.	Part Name	Description	Local	<b></b> ∆R9331 R9332	QRK126J-681X QRE121J-150Y	UNF C RESISTOR C RESISTOR C RESISTOR	680Ω 1/2\ 15Ω 1/2\	ΝJ
IC9231 IC9321 IC9341	PQ05RF11 STR-G6624/F8 SE015N-LF12	IC IC IC			R9333 R9342 R9343 R9344 R9345	QRE121J-684Y QRE121J-152Y QRE121J-182Y QRE121J-102Y QRE121J-152Y	C RESISTOR C RESISTOR C RESISTOR	680kΩ 1/2\ 1.5kΩ 1/2\ 1.8kΩ 1/2\ 1kΩ 1/2\ 1.5kΩ 1/2\	N J N J N J
Q9361 Q9362	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR			R9346 R9347 R9348	QRE121J-152Y NRSA63J-153X NRSA63J-103X NRSA63J-332X	C RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	15kΩ 1/16\ 10kΩ 1/16\ 3.3kΩ 1/16\	N J
D9111 ▲ D9211 ▲ D9311 ▲ D9312 D9321 D9322	MA3047/H/-X S1WB/A/60-4101 D2SBA60 EU2-T3 EG1A-T3 AU01Z-T2	Z DIODE BRIDGE DIODE BRIDGE DIODE SI DIODE SI DIODE FR DIODE			R9349 R9350 R9365 R9366 AR9399	NRSA63J-223X NRSA63J-332X NRSA63J-472X NRSA63J-473X QRZ9046-685Z	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR C RESISTOR	22kΩ 1/16\ 3.3kΩ 1/16\ 4.7kΩ 1/16\ 47kΩ 1/16\ 6.8MΩ 1/2\	W J W J W J
D9322 D9323 D9324 D9325 D9326 D9327 D9328	AU012-12 AU01Z-T2 MA111-X MA111-X RD5.1E/B2/-T2 MA700A-T2 RD30E/B2/-T2	FR DIODE FR DIODE SI DIODE Z DIODE SB DIODE Z DIODE Z DIODE			L9211 L9341 L9342 ▲T9211 ▲T9921	QQL26AM-4R7Z QQL26AK-220Z QQLZ026-260 QAL0425-001 QQS0191-001	COIL COIL COIL POWER TRANSF SW TRANSF	4.7uh 22ul 26uH ±	ΗK
D9329 D9341 D9342 D9343 D9344 D9351 D9352 D9363	AU01Z-T2 EU2-T3 FMX-G12S EU2-T3 RD33E/B1/-T2 MA111-X MA8030/H/-X MA111-X	FR DIODE SI DIODE SI DIODE SI DIODE SI DIODE Z DIODE Z DIODE SI DIODE Z DIODE Z DIODE SI DIODE			CN9001 CN9002 CN900F CN90E2 CN90PW ⚠CP9341 ⚠CP9342 ⚠CP9343	ICP-N50-Y ICP-N70-T ICP-N50-Y	CONNECTOR CONNECTOR CONNECTOR SIN TWIST WIRE CONNECTOR IC PROTECTOR IC PROTECTOR IC PROTECTOR	2 2	16) I-4) I-2) .0A .5A .0A
⚠PC9111 ⚠PC9341	PC123Y22 PC123Y22	PHOTO COUPLER PHOTO COUPLER			⚠CP9344 ⚠F9001 ⚠F9211	ICP-N70-T QMF51U1-2R0-J8 QMFZ049-2R0-E	IC PROTECTOR FUSE FUSE	2A AC12 2A 12	25V
↑ C9001 ↑ C9002 ↑ C9004 ↑ C9004 ↑ C9006 ↑ C9211 ↑ C9212 ↑ C9213 ↑ C9221 ↑ C9222 ↑ C9231 ↑ C9232 ↑ C9232 ↑ C9232 ↑ C92301 ↑ C9302	QFZ9075-224 QFZ9075-224 QCZ9079-471 QCZ9079-471 QCZ9054-472 QCZ9054-472 QCZ9054-472 QETM2EM-475 QTMN1CM-477Z QEHR1AM-337Z QEHR1CM-107Z QEHR1CM-107Z QCZ9079-102 QCZ9082-102Z QCZ9082-102Z	MPP CAPACITOR MPP CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR	0.22uF AC27: 0.22uF AC27: 470pF AC25 470pF AC25 4700pF AC25 4700pF AC25 4700pF AC25 470uF II 330uF II 100uF II 100uF AC25 1000pF AC25	5V M OV K OV Z OV Z OV Z OV Z OV M 6V M	▲F9311 FC9002 H9321 H9321 H9341 K9322 K9323 K9324 K9341 K9343 K9344 ▲LF9001 ▲F90002 ▲RY93011	QMFZ049-2R0-E CEMG002-001Z LC31214-001A CM46960-00D QQR0621-002Z QQR1084-002	FUSE FUSE CLIP FUSE CLIP HEAT SINK/FE-P/ HEAT SINK ASSY FERRITE BEADS VINE FILTER LINE FILTER RELAY SURGE ABSORBER	2A 12	
<b>∆</b> C9303 <b>∆</b> C9304	QCZ9082-102Z QCZ9082-102Z	C CAPACITOR C CAPACITOR	1000pF AC250 1000pF AC250	OV M OV M	∆VA9001 ∆VA9002	ERZV10V621CS QAF0027-271	ZNR VARISTOR	27	70V
C9311 C9321 C9322	QEZ0169-337 QFP32GJ-103Z QCZ0354-471Z	E CAPACITOR PP CAPACITOR C CAPACITOR	0.01uF 40 470pF 2		FRONT	CONTROL PV	V BOARD ASS"	Y (SSB-0L09	7A)
C9324 C9325	QFLC1HJ-182Z QCS31HJ-331Z	M CAPACITOR C CAPACITOR	1800pF 5 330pF 5	90A N 20A N	Ref No.	Part No.	Part Name	Description	Loc
C9326 C9327 C9328	QEHR1VM-107Z QFLC1HJ-681Z QFV71HJ-104Z	E CAPACITOR M CAPACITOR MF CAPACITOR	100uF 39 680pF 5 0.1uF 5	90A N 20A N	Q1701 Q1702	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR		
C9329 C9342 C9343 C9345 C9346 C9347 C9351	QCZ0131-222 QEHR2AM-106Z QEHR1HM-105Z QEHR1EM-107Z QEHR1EM-477Z QEHR1EM-477Z QECQ1EM-228	C CAPACITOR E CAPACITOR	2200pF 2 10uF 10i 1uF 5i 100uF 2i 470uF 2i 470uF 2i 2200uF 2i	0V M 0V M 5V M 5V M 5V M 5V M	D1402 D1403 D1404 D1405 D1406 D1702	MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X SLR-342MG3F	Z DIODE Z DIODE Z DIODE Z DIODE Z DIODE LED	GRE	EN
C9352 ▲C9398	QEHR1HM-105Z QCZ9079-102	E CAPACITOR C CAPACITOR	1uF 50 1000pF AC250		C1442 C1443	QETN1HM-105Z QETN1HM-105Z	E CAPACITOR E CAPACITOR	1uF 50\ 1uF 50\	/ M / M

C1442 C1443

QETN1HM-105Z QETN1HM-105Z

E CAPACITOR E CAPACITOR

1uF 50V M 1uF 50V M

Ref No.	Part No.	Part Name	Description	Local	Ref No.	Part No.	Part Name	Description	Local
C1444 C1445 C1446 R1401 R1402 R1403 R1404 R1405 R1411 R1412 R1413 R1414 R1415 R1416 R1417 R1418 R1419 R1420 R1701 R1702 R1703 R1704 R1704	QETN1HM-106Z QETN1HM-106Z NCB31HK-103X NRSA63J-750X NRSA63J-224X NRSA63J-224X NRSA63J-750X NRSA63J-750X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X	E CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR MG RESISTOR	10uF 50 10uF 50 0.01uF 51 220kΩ 1/16 220kΩ 1/16 75Ω 1/16 75Ω 1/16 0Ω 1/16 1.8kΩ 1/16 1.8kΩ 1/16 1.8kΩ 1/16 1.8kΩ 1/16 1.8kΩ 1/16	2M 1 2M 1 2M 1 2M 1 2M 1 2M 1 2M 1 2M 1	C0224 C0225 C0226 C0227 C0228 C0230 C0231 C0501 C0502 C0503 C0532 C0533 C0534 C0535 C0536 C0536 C0537 C0561 C0562 C0563 C0701 C0702 C0703 C0704	NCB31HK-223X NCB31HK-472X QENC1HM-475Z NCB31EK-104X NCB31HK-472X QENC1HM-105Z QENC1HM-105Z QETN1CM-106Z QETN1EM-476Z QENC1HM-105Z QENC1HM-105Z QENC1HM-106Z NCB31CK-683X QETN1EM-476Z NCB31HK-183X QETN1EM-476Z QENC1HM-106Z QENC1HM-106Z QENC1HM-106Z QETN1HM-105Z QETN1HM-105Z QETN1HM-105Z QETN1HM-105Z QETN1EM-476Z NCB31HZ-820X NDC31HJ-820X NDC31HJ-820X	C CAPACITOR C CAPACITOR BP E CAPACITOR C CAPACITOR C CAPACITOR BP E CAPACITOR BP E CAPACITOR E CAPACITOR BP E CAPACITOR BP E CAPACITOR BP E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR BP E CAPACITOR E CAPACITOR BP E CAPACITOR C CAPACITOR	0.022uF 50' 4700pF 50' 4.7uF 50\ 0.1uF 25' 4700pF 50' 1uF 50\ 1uF 50\ 10uF 16\ 47uF 25\ 1uF 50\ 10uF 50\ 10uF 50\ 0.068uF 16' 47uF 25\ 0.018uF 50\ 10uF 50\	V K V M V K V M V M V M V M V M V M V M V M V M V M
CN100G CN100H J1401	QGF1201C2-13 QGF1201C2-13 QNZ0438-001	CONNECTOR CONNECTOR AV JACK	FFC/FPC (1 FFC/FPC (1 S/V/L/	l <b>-1</b> 3)	R0102 R0103 R0104 R0105	NRSA63J-0R0X NRSA63J-473X NRSA63J-221X NRSA63J-221X	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	0Ω 1/16\ 47kΩ 1/16\ 220Ω 1/16\ 220Ω 1/16\	W J W J
ÆRef No.	Part No.	Part Name	Description	Local	R0106 R0107 R0109	NRSA63J-103X NRSA63J-0R0X NRSA63J-103X	MG RESISTOR MG RESISTOR MG RESISTOR	10kΩ 1/16\ 0Ω 1/16\ 10kΩ 1/16\	M J M J
IC0201 IC0501 IC0531 IC0561 IC0701 Q0101 Q0102	CXA2134Q-X BA4558F-X BA4558F-X CD4066BE M62320FP-X 2SC3928A/QR/-X 2SA1530A/QR/-X	IC IC IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR			R0110 R0111 R0117 R0118 R0201 R0202 R0203 R0204 R0205 R0206	NRSA63J-0R0X NRSA63J-0R0X NRSA63J-103X NRSA63J-273X NRSA63J-221X NRSA63J-105X NRSA63J-105X NRSA63J-104X NRSA63J-104X NRSA63J-682X	MG RESISTOR MG RESISTOR	0Ω 1/16) 0Ω 1/16) 10kΩ 1/16) 27kΩ 1/16) 220Ω 1/16) 220Ω 1/16) 1MΩ 1/16) 100kΩ 1/16) 12kΩ 1/16) 6.8kΩ 1/16)	M 1 M 1 M 1 M 1 M 1 M 1 M 1
Q0103 Q0531 Q0532 Q0561 Q0562 Q0563 Q0564 Q0565 Q0566 Q0701	2SC3928A/QR/-X 2SC3928A/QR/-X 2SA1530A/QR/-X 2SA1530A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X UN2212-X UN2212-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR DIGI TRANSISTOR TRANSISTOR			R0207 R0211 R0213 R0214 R0217 R0218 R0501 R0502 R0503 R0504	NRSA63F-623X NRSA63J-332X NRSA63J-302X NRSA63J-392X NRSA63J-221X NRSA63J-221X NRSA63J-472X NRSA63J-472X NRSA63J-153X NRSA63J-153X	MG RESISTOR	62kΩ 1/16\ 3.3kΩ 1/16\ 3kΩ 1/16\ 3.9kΩ 1/16\ 220Ω 1/16\ 220Ω 1/16\ 4.7kΩ 1/16\ 4.7kΩ 1/16\ 15kΩ 1/16\ 15kΩ 1/16\	W F W J W J W J W J W J W J W J
D0203 D0204 D0531 D0561 D0562 D0563 D0701	MA8082/M/-X MA8082/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X 1SS355-X 1SS355-X	Z DIODE Z DIODE Z DIODE Z DIODE Z DIODE SI DIODE SI DIODE SI DIODE			R0505 R0506 R0507 R0508 R0531 R0532 R0533 R0534	NRSA63J-123X NRSA63J-103X NRSA63J-123X NRSA63J-103X NRSA63J-221X NRSA63J-823X NRSA63J-0R0X NRSA63J-392X	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	12kΩ 1/16\ 10kΩ 1/16\ 12kΩ 1/16\ 10kΩ 1/16\ 220Ω 1/16\ 82kΩ 1/16\ 0Ω 1/16\ 3.9kΩ 1/16\	M J M J M J M J M J
C0104 C0105 C0201 C0202 C0203 C0204 C0205 C0206 C0207 C0208 C0209 C0210 C0211 C0212 C0213 C0214 C0215 C0216 C0217 C0218 C0217 C0218 C0219 C0220 C0221 C0222 C0223	QETN1HM-106Z QETN1CM-477Z QENC1HM-475Z NCB31EK-104X QENC1HM-475Z NCB31HK-562X NCB31HK-123X QETN1HM-105Z QETN1HM-475Z QETN1HM-475Z QETN1CM-107Z QENC1HM-475Z QENC1HM-475Z QENC1HM-475Z QENC1HM-475Z QENC1HM-475Z QENC1HM-475Z NCB31HK-272X NCB31HK-272X NCB31HK-473X QETN1HM-106Z QETN1HM-106Z QETN1HM-105Z QETN1HM-105Z QETN1HM-105Z NCF31CZ-104X QENC1HM-475Z QENC1HM-475Z NCF31CZ-104X	E CAPACITOR E CAPACITOR BP E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR BP E CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR BP E CAPACITOR C CAPACITOR BP E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR	10uF 50 470uF 16 4.7uF 50 0.1uF 29 4.7uF 50 5600pF 50 0.012uF 50 10uF 50 4.7uF 50 10uF 50 4.7uF 50 4.7uF 50 4.7uF 50 2700pF 50 0.047uF 50 10uF 50 1.0uF 50 4.7uF 50 0.1uF 10 4.7uF 50 0.1uF 10 4.7uF 50 0.1uF 10	5V M  1V M  5V K  5V K  5V K  5V K  5V M  5V M	R0535 R0536 R0537 R0538 R0539 R0540 R0541 R0542 R0543 R0544 R0561 R0562 R0563 R0566 R0565 R0566 R0567 R0568 R0569 R0570 R0573 R0574 R0577 R0579 R0580	NRSA63J-332X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-472X NRSA63J-472X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-221X NRSA63J-221X NRSA63J-823X NRSA63J-823X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-682X NRSA63J-682X NRSA63J-682X NRSA63J-682X NRSA63J-0R0X NRSA63J-104X	MG RESISTOR	3.3kΩ 1/16l 10kΩ 1/16l 15kΩ 1/16l 10kΩ 1/16l 10kΩ 1/16l 10kΩ 1/16l 4.7kΩ 1/16l 4.7kΩ 1/16l 10kΩ 1/16l 20Ω 1/16l 220Ω 1/16l 220Ω 1/16l 220Ω 1/16l 32kΩ 1/16l 1.5kΩ 1/16l 1.5kΩ 1/16l 3.3kΩ 1/16l 3.3kΩ 1/16l 3.3kΩ 1/16l 3.3kΩ 1/16l 6.8kΩ 1/16l 5.6kΩ 1/16l 0Ω 1/16l 0Ω 1/16l 0Ω 1/16l 0Ω 1/16l	M J M J M J M J M J M J M J M J

⚠Ref No.	Part No.	Part Name	Description	Local
R0701 R0702 R0704 R0708 R0709	NRSA63J-101X NRSA63J-333X NRSA63J-332X NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	100Ω 1/16W 33kΩ 1/16W 3.3kΩ 1/16W 100Ω 1/16	] ] ]
R0711 R0712	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16W S 100Ω 1/16W S	j
L0102	QQL244K-100Z	COIL	10uH k	(
CN0005 CN0006 CN00S4 J0501	QGB1505K1-15 QGB1505K1-35 QGA2501F1-03 QNN0550-001 QALI0303-001	CONNECTOR CONNECTOR CONNECTOR PIN JACK TUNER	B-B (1-15) B-B (1-35) W-B (1-3) AUDIO OUT SUE	<u>)</u>

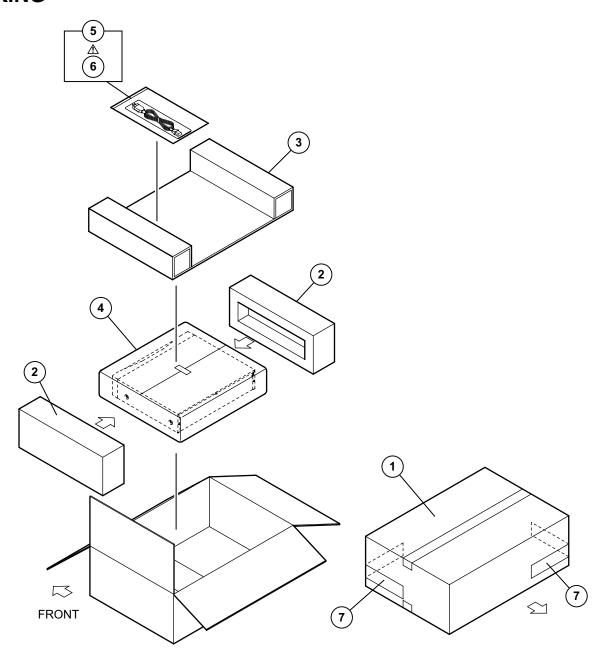
#### MI-COM & DIST MODULE PW BOARD ASS'Y (SSB-0D097A)

⚠Ref No.	Part No.	Part Name	Description	Local
<b>△</b> MD0001	SSB-0D097A	MI-COM & DIST N	MODULE PWB	

#### DIGITAL INPUT MODULE PW BOARD ASS'Y (SSB-7997A)

⚠Ref No.	Part No.	Part Name	Description	Local
MD0001	SSB-7997A	DIGITAL INPUT MO	DDULE PWB	

## **PACKING**



## **PACKING PARTS LIST**

⚠ Ref.No.	Part No.	Part Name	Description	Local
1 2 3 4 5 6 7	LC32143-013B LC11392-001A LC21225-001B PQM30021-105 QPA01203505 QMPE280-180-JW LC20989-001A-H	PACKING CASE CUSHION ASSY SPACER POLY BAG POLY BAG POWER CORD(US/CA) CORNER LABEL	2pcs in 1set for REVIVER UNIT for POWER CORD 1.8m BLACK 2pcs in 1set(x2)	